LIMA LOCOMOTIVE WORKS INCORPORATED

LIMA, OHIO, U. S. A.

Direct Locomotive CARD INDEX

Class 0-8-0 Dept. DRAWING ROOM

SOUTHERN R. R.

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
SOUTHERN C.O.- 1089	7077 to 7088	4-19-1926	J.E.Smith
C.N.O.&T.P. C.O.- 1089	7089 to 7094	4-19-1926	J.E.Smith
ALABAMA GT. SOUTHERN C.O.- 1089	7095 to 7098	4-19-1926	J.E.Smith
		19	
		19	

FORM LED. 30

CO-1089

E. D. 257.

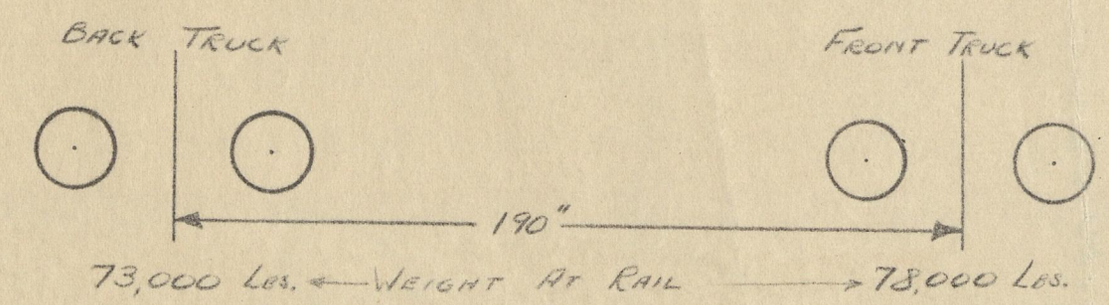
LIMA LOCOMOTIVE WORKS, INCORPORATED ORDER No. 1089

ENGINEERING DEPARTMENT

CALCULATIONS

MADE BY R.S. 3/31/26 CHECKED BY AJT 3/31/26 ELEVATION MAN ERT

TENDER SPRINGS



78,000 LBS.
6,300 " DEAD WTS. OFF
71,700 LBS. MAX. LOAD ON SPRINGS (FRONT)

$\frac{71,700}{2}$ = 35,850 LBS. LOAD ON 1 SPRING NEST

SPRINGS AS PER CARD 762-A-6

26" CTS. 7 PLATES $4\frac{1}{2}" \times \frac{7}{16}"$ (3 PER NEST)

$393 \times 7 \times 4\frac{1}{2} \times 3 = 37,100$ LBS. CAPACITY 1 SPRING NEST

CAPACITY OF 1 NEST IS $3\frac{1}{2}$ % OVER LOAD WITH MAX. COAL & WATER

The following Malleable Patterns used on Order 1089 Serv. Req

			Sow Pat't
1-R	Dead Lever Anchor Bracket	Sow Patt E.M 412	S-L-40552
1-L	" " " "	" " EM-413	"
3	Tank Manhole Handles	" " EM-414	SL-40559
2	" Valve Handles	" " EM 406	SL-2249
2	" " Coupling Nuts	" " EM 407	"
2	" " Thimbles	" " EM 408	"
2	" " Seats	" " EM-409	"
2	Signal Lamp & Flag Brackets	" " EM 469	SL 41044
1	Tank Cock Handle	" " EM-114	SL-3916
1	" " Flange	" " EM-234	"

Allison

H. W. Snyder March 11, 1926.

SOUTHERN RAILWAY - ORDER 1089

You will note from Mr. Dixon's letter to me dated March 5th, copy of which you have received, that all the specialties covered on the allowance sheet are to be held until further advised.

We have named Railroad Company allowances on the following items:

1. Axles - Driving
   Axles - Tender Truck
2. Crank Pins
3. Piston Rods
4. Driving Tires
5. Springs - Elliptic - Engine
   " - Tender
6. Springs - Coil - Engine
   (none used)
7. Bearings - Driving Box
   ~~Engine Truck~~
   ~~Trailer Truck~~
   Rod Bearings
8. Tender Journal Bearings
9. Tender Wheels
11. Draft Gear - Miner A-18-S-2
12. Farlow Attachments incl. yoke
13. Boiler Lagging
14. Boiler Tubes 2"
15. Superheater Flues 5-1/2"
17. Arch Tubes 3" O.D.
18. Metallic Packing P.R. & V.S.
20. Headlight Case
    Headlight Generator
21. Injectors (incl.start.lever & cab stand)
22. Lubricator force feed
    Lubricator 1 feed hydrostatic
24. Power Reverse Gear
25. Tender Brake Beams (excl.of 3rd point support)
26. Reflex Water Gauges
27. Steam Gauge
28. Blow-off Cock
29. Ash Pan Blower Valve
30. Coal Sprinkler
31. Injector Checks
32. Safety Valves
33. Sanders
34. Tank Hose Strainers
36. Bumper Beam
38. Tender Frame
39. Tender Truck Bolsters
40. Tender Truck Side Frames
43. Flexible Staybolts, water space and expansion.
44. Low Water Alarm

S. S. Lawson

PEP:EK

Copy to Mr. Woodard.
3 copies to Mr. Snyder.

H. W. Snyder March 5, 1926.

SOUTHERN RAILWAY - C.O. 1089

The following U.S.R.A. drawing numbers are specified in the Railroad Company's specification E-91 dated February 19, 1924 on which the above order wasebased:

Design - 1416 & 1417
Boiler - 836, 837 & 838
(O'Connor door flange omitted)
Fire Brick - 1230
Smoke Box - 499,door 812
Smoke Stack - 443, clean.hole - 134
Frames - 385
Shoes & Wedges - 480
Deck Plate - 638-2
Bell - 421
Headlight Bracket - 1352 & 1089
Number Plate - 1352
Turret - 790
Dome Casing - 1018
Sand Box Casing - 1787
Crank Pins - 533, 534 & 908
Driving Wheels - 787,788 & 789
Spring Rigging - 827 & 843
Guides - 991 (Hoke lug omitted)
Piston Valves - 37
Cylinder Head Covers - 35
Cylinder Heads - 7
~~FIXTURES~~
Cab - 1206 & 1207
Cab Fixtures - 705, 1032& 573
Firedoor Shield - 844
Pilot - 1350
Steps - 1416 & 1417
Tender Frame - 814
Tender Steps - 435 & 868
Tank - 1089 Modified
(Coal pusher omitted)
Tank Valves - 699
Tender Truck - 737
Bolster - 645
Brake Details - 737
Center Plate - 191
Side Bearings - 645
Draw Gear - 973
Dome - 85; Cap - 92
Steam Pipes - 395
Exhaust Pipe - 449

The following Railroad Company's drawings are specified:
Washout Plugs - 26-F-59
Washout Plugs - 9-D-58
Grates - SL-2256 & 9-E-46
Grate Supports - SL-40531 & SL-3719
AshPan Supports - SL-6088
Ashpan Blower - 16-E-98
Smokebox netting - 7-G-21
Superheater Detail - SL-40680
Safety Valve Test Fitting - SL-4600
Steam Gauge - 8-D-92
Water Gauge - SL-2264
Gauge Cocks - 13-F-28
Column Arrangement - SL-3846
Whistle - SL-3623 & SL-3739
Steam Chest Head - SL-2199 & SL-40251
Cylinders - SL-5055
Crossheads - SL-3550 & SL-40572
Side Rods - SL-6065 & SL-3547 (modified with solid back end)
Grease Cups - SL-3390
Driving Box Bearing - SL-3545 & SL-3544
Wheel Mounting Pressure - SL-4093
Oil Cups - 20-F-96 & 20-P-97
Piston Packing Rings - SL-40273
Tire Section - 9-G-14
Power Reverse Gear Piping - SL-40762
Driver Brake Heads & Shoes - 15-E-49 & 16-E-91
Cab Warmer - 18-E-55
Cab Fixtures - 17-E-7 & 16-F-78
Deck Casting - SL-3755
Firing Tools - SL-2005 SL-3009, 1109
Set Screws - 9-E-100
Fire Extinguisher - 22-F-42 & 14-F-79, 18-E-87 23-F-83, & 20-E-35
Marking - 9-E-43 revised
Painting - SL-1050
Axles - Tender - SF-4761
Center Plate, Top - SL-40616
Bearings - SF-40151
Wedges - SF-4758
Truck Marking - 8-B-65
Truck Bolster Spring - 11-E-12-16

S. S. Lawson

PEF:EM
COPY TO MR. WOODARD.

INDEX TO CLASSIFICATION OF DRAWINGS

Group No.	TITLE
10	Ash-pan and Oil-pan.
11	Axles.
12	Bell and Ringer.
	Blow-Off Cock—See 26.
	Blower Pipe Elbow—See 63.
13	Boilers.
14	Boiler Details and Attachments—Tubes and Flues.
	Mallet Cylinder and Bearing Saddles.
	Boiler Checks—See 55.
15	Bolts and Nuts, Studs, Pins and Bushings.
	Booster—See 99.
16	Boxes, Driving and Details.
17	Boxes, Engine Truck, Trailing.
18	Brackets, Air and Steam Gauge Brackets.
19	Brake Equipment, Operating, Air Signal, Air Pump Bracket, Air Reservoirs.
20	Brake Equipment, Foundation.
	Brick Arch—See 45.
21	Bumpers and Details.
	By-Pass Valve—See 34.
22	Cabs.
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc.
	Cab Handle—See 53.
	Cab Lamp—See 54.
	Cab Tool Box—See 23.
	Cab Turret—See 78.
	Chafing Plate—See 37.
	Cinder Valve and Pipe—See 75.
	Clearances—See 98.
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves.
27	Cocks and Valves, Gauge, Water and Special.
28	Cock Rigging.
	Combination Lever—See 58.
	Connecting Rods—See 72.
	Coupler Engine—See 37.
29	Crank Pins and Details.
30	Crossheads, Arm, Pin, Key and Shoes.
	Crossties—See 47.
31	Cylinders and Barrel Bushings.
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings.
33	Cylinder Compound Attachment, Intercepting, Reducing and Starting Valves, Receiver Pipe.
34	Cylinder By-Pass, Relief, Vacuum and Drifting Valves.
	Cylinder Saddles, Mallet Engines—See 14.
35	Die Work—Flanging Dies.
36	Dome—Cap, Casings and Ring.
37	Drawgear, Engine, Coupler, Uncoupling Rigging. Front Buffers, Drawbars, Safety Chains and Bars. Chafing Plate, Radial Buffers.
	Draft Pipe—See 75.
	Driving Spring Saddle—See 77.
	Driving Spring Hangers—See 77.
	Dry Pipe—See 91.
	Dynamo—See 54.
39	Eccentrics, Cranks, Straps and Rods.
40	Engine Truck—Leading.
41	Engine Truck—Trailing.
	Engine Truck Center Pin Guide—See 47.
	Equalizers—See 77.
42	Erecting Cards—Elevations.
43	Erecting Cards—Cross Sections.
44	Exhaust Pipe and Nozzles.
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45	Fire Door, Fire Brick and Tubes—Smoke Consumer
	Fire Box Ring—See 14.
	Fire Extinguisher—See 64.
46	Frames, Frame Cradles, Pedestal Ties, Shoes and Wedges.
47	Frame Details, Foot Plate, Crossties, Filling Castings, Waist Sheets, Furnace Bearers.
49	Gauges, Templates and Jigs.
50	Guides, Yoke and End.
51	Grate Arrangement.
52	Grate Details.
	Hand Holes—See 66.
53	Hand Rails and Steps, Engine and Tender.
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders' License and Number Plates.
	Intercepting Valve—See 33.
55	Injectors, Boiler Checks and Strainers.
	Keys—See 15.
57	Lagging and Jacket.
	Lamps—See 54.
58	Link Motion.
	Lubricator—See 59.
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	Number Plates—See 54.
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator.
60	Oil Burning Attachments—Engine.
61	Painting, Lettering and Numbering—Photos.
62	Pilot and Snow Plows.
	Pedestal Bolt and Thimble—See 47.
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings.
64	Piping Arrangements, Engine, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping.
65	Piston and Rod, Extensions, Rod Packing.
66	Plugs, Hand Holes and Washout.
	Push Pole Pocket—See 21.
	Radius Rod—See 58.
	Receiver Pipes—See 33.
68	Reverse Lever, Screw and Pneumatic Gears.
69	Reverse Shaft and Reach Rod.
70	Rocker and Box.
71	Running Boards and Brackets, Side and Deck Sheets.
72	Rods, Main and Side, Knuckle Pins and Studs.
	Safety Valves—See 78.
73	Sand Box, Sanders and Rigging.
	Shoe and Wedge—See 46.
	Signal Attachments—See 54.
	Side Sheet, Cab—See 71.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces.
	Smoke Consumer—See 45.
	Speed Recorder—See 99.
76	Springs.
77	Spring Rigging.
	Sprinkler—See 64.
	Steam Chests—See 32.
78	Steam Gauge, Safety Valve and Turrets.
	Steam Heat—See 64.
79	Steam Pipes and Tee Heads.
	Steps—See 53.
80	Stoker and Details, Engine and Tender.
81	Superheater, Header and Details.
	Superheater Flues—See 14.
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose.
83	Tank, Engine—Side and Saddle, Coal Bunk, Equalizing Pipes.
91	Throttle and Dry Pipe—Lever, Supports, Sleeves
	Tires—See 95.
	Tool Boxes, Engine—See 23.
92	Tools.
	Tube Setting—See 14.
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94	Valves, Distribution—Stems, Rods, Valve Rod, Crosshead and Packing.
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95	Wheels and Tires—Driving, Engine Truck, Trailing, Tender and Shay Wheels.
96	Whistle and Rigging.
97	Preliminary Designs and Propositions.
98	Clearance and Wheels Base Diagrams.
99	Miscellaneous—Booster—Speed Recorder.

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS PAGE:- ITEM	Check
4-19-26	9 - 36.	S
"	20 - 10	S
"	27 - 54,55,60,31	S
"	23 - 43,48,49,50,51	S
"	24 - 11,54	S
"	8 - 1	S
"	29 - 22	S
"	44 - 41,42,44,45,46,47,48,49	S
"	12 - 23	S
"	10 - 51	S
"	50 - 31,33	S
"	49 - 44	S
"	7 - 43,44	S
4-20-26	5- 29-30-31-32-33-34-35-54-60-61	S
"	6-~~36~~-7-8-9-25-26	S
"	19-46-49	S
"	23-12-13	S
"	40-2-17	S
"	50-28-29	S
"	5-41-42-43-44-45-46-47-48-49	S
"	5-50-	S
"	52-43	S
"	42-16,17,18,19,20,21,22,24	S
"	42-26,27,28,29,30,31	S
"	36-38,39	S
"	28-21,22,23,27	S
4-21-26	20-11,13	S
"	32-42,43	S
"	39-12,18,19	S
"	33-7,8,9,10,11	S
4-21-22	5-44-48-50	S
"	9-58	S
"	10-1,4,7,18,50	S
"	28-9,10	S
4-22-26	28-43	S
"	15-31	S
"	36-60,61	S
"	43-28,49,50,51,52,54,55,56	S
"	28-46,11	S
"	39-17,20,22,14	S
"	37-52,53,54,55,56,57,58,59,60,61	S
"	45-39,40	S
4-23-26	44-1,2,3,5,6,7,8,9,15,16	S
"	48-1,3,30	S
"	15-51,56,57	S
"	17-31,32,33	S
"	14-10	S
"	29-9	S
"	40-41	S
"	20-40,44	S
"	51-37	S
4-24-26	35-57	S
"	46-51	S
"	14-30,31,32,33	S
"	15-46,47	S
"	17-37,38,39	S
4-26-26	10-34,35,36,38,39,40,28,29	S
"	10-22,23,24,25,26,27	S
"	39-14	S

Date	ITEMS PAGE:- ITEM	Check
4-26-26	29-2,18	S
"	48-3	S
4-26-26	25-32-33-34-35-36	S
4-27-26	28-45	ED
"	11-59	"
"	12-52	"
"	43-35,30	"
"	40-32	"
"	5-22,23	"
"	28-46	"
"	27-27	"
"	33-13	"
4-28-26	8-25	"
"	38-1,2	"
"	49-55,57	"
"	40-32 ~~Hold up~~	S
"	14-58 ~~Hold up~~	S
4-30-26	28-43 ~~Hold up~~	S
"	5-22 ~~Hold up~~	ED
"	27-1,3 TO 14	"
"	38-3,4,5,6	"
"	14-58 Release	"
"	5-22 Change & Release	"
"	40-32 Change & Release	"
5-1-26	10-53,43,45,32	"
"	13-30	"
"	46-46	"
"	52-29,31	"
"	28-24,28	"
"	4-60	"
"	33-16,17,18,19	"
5-3-26	42-48	S
5-4-26	41-37,38,49,50,51,52,53,54	S
"	42-1,2,3	S
"	5-15	S
"	43-22,29	ED
"	5-14	"
"	52-44	"
5-5-26	15-10 TO 23,25,26,27,28	"
"	15-30 TO 38,40,41,42,43	"
"	15-44,45	"
"	46-54	"
"	43-~~23~~ 38,39,40,41	"
"	20-44	"
"	42-40,48,55,21,28,29	"
"	43-6	"
"	19-38	"
5-7-26	46-6	S
"	30-48,49	S
5-8-26	43-23,42,43,44,45	ED
5-10-26	50-44,48,49,50,51,58,59,60,61	"
"	51-6,7,13,14,15,18,19,20,21	"
5-10-26	8-27,29	"
5-11-26	8-25	"
"	22-41-45	"
5-12-26	46-42,43,44,45,48,49	"
5-13-26	44-5	S
5-17-26	28-50,51,52,53,54	ED
"	28-43 Change & Release	"

Date	ITEMS PAGE:- ITEM	Check
5-17-26	4-28	ED
5-25-26	10-46,47	"
5-27-26	28-44	S
"	39-15	S
5-28-26	15-10 TO 42	S
6-2-26	40-22	ED
6-3-26	37—22-23-24-25-26-27	S
" " "	37—30-31-32-34-35-36	S
6-4-26	10—39-40	S
" " "	40—22	S
6-4-26	37—38-39-40	S
6-4-26	16—51-52-53	S
6-8-26	33-6	20
" " "	15—48	"
" " "	37—41	"
6-9-26	27—61	S
6-10-26	44—10	ED
6-10-26	30—46	"
6-11-26	57—13-14	"
6-12-26	33—20	"
" " "	4—34	"
" " "	37—52-53-54-55	"
6-14-26	42-33	"
"	27-21	S
"	36-43	S
6-15-26	13-41,33	ED
"	36-43	"
6-17-26	28-50,51,52,53,54	S
"	14-34,35,36,37	S
"	16-1,2	S
6-18-26	31-42,43,44	ED
6-21-26	50-43	S
6-24-26	39-27,28,29	S
12-18-29	17-30 Recind	

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS	Check	Date	ITEMS	Check	Date	ITEMS	Check

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
	1	Ash ~~Oil~~ Pan	1	105-A-8	PLATE & ANGLE MATL. ORD. IN P.D.	for future redesign method postponed	—	—	—	—
	2	" " Material Bill	1 SET	10-MO-15	" " "		—	—	—	—
	3	" " Hopper	—							
	4	" " "	—							
	5	" " Door	1	102-A-4	—	—	10-150	—	—	—
	6	" " " Links	2	103-J-65	—	10-A-12	—	—	—	—
	7	" " " Frame	1	103-A-2	—	—	—	10-149	—	—
	8	" " ~~Damper~~ " LINK STOP	2	103-N-65	—	—	—	—	—	—
	9	" " " Rigging	—							
	10	" " " Handle	—							
	11	" " " Crank	—							
	12	" " " "	—							
	13	" " " Hinge	—							
	14	" " " "	—							
	15	" " " Hanger	—							
	16	" " " "	—							
	17	" " " Lug	—							
	18	" " " "	—							
	19	" " " Lever	—							
	20	" " " Latch	—							
	21	" " " Rod	—							
	22	" " " "	—							
	23	" " " Shaft	—							
	24	" " " " Bearing	—							
	25	" " Slide	—							
	26	" " " Rigging	—							
	27	" " " Rod	2	103-B-65	—	10-B-214	—	—	—	—
	28	" " " " SPRING	2	102-A-144	ORD. IN P.D. STEEL WIRE FORGED SIZES 3¼"x3-⅜"x 20"	—	—	—	—	—
	29	" " " Jaw	2	"	"	—	—	—	—	—
	30	" " ~~Frame~~ OPERATING SHAFT COLLARS	2	103-K-65	FORGED SIZES 3½" DIA x 1" THICK	—	—	—	—	—
	31	" " Operating Shaft	1	103-A-65	MATL. ORD. IN P.D.	—	—	—	—	—
	32	" " " " Arms	2	103-E-65	—	10-A-10	—	—	—	—
	33	" " Shaft Bearing	2	103-M-65	PLATE-MATL ORD. IN P.D.	10-A-286	—	—	—	—
	34	" " Hand Lever	1	103-D-65	—	~~10-B-13~~ 103-D-65	—	—	—	—
	35	" " " " Stop ARM	1	103-C-65	—	10-B-216	—	—	—	—
	36	" " Lock Pin	1	103-L-65	FURNISH CHAIN	10-A-18	—	—	—	—
	37	" " ~~Operating Cyl.~~ SHAFT BEARING	1	103-H-65	PLATE-MATL ORD. IN P.D.	10-A-31	—	—	—	—
	38	" " ~~Heads~~ HAND LEVER STOP QUADRANT	1	103-F-65	—	10-A-285	—	—	—	—
	39	" " Piston	—							
	40	" " " Rod	—							
	41	" " ~~Follower~~ SUPPORT - FRONT	1	103-R-65	PLATE-MATL ORD. IN P.D.	10-D-33	—	—	—	—
	42	" " ~~Rings~~ SUPPORT - "	2	103-Q-65	—	10-D-34	—	—	—	—
	43	" " Supports - SIDE	2	103-P-65	—	10-F-17	—	—	—	—
	44	" " " - "	2	103-S-65	—	10-B-17	—	—	—	—
	45	" " Swipe Manifold	1	102-A-109	FURNISH PIPE NIPPLE	—	10-86	—	—	—
	46	" " Cinder Box	1R 1L	105-A-8	—	—	—	—	—	—
	47	" " " " Cover	—							
	48	" " Brick Work	—							
	49	" " PINS	4	103-T-65	—	—	—	—	—	—
	50	" " "	2	103-V-65	—	—	—	—	—	—
	51									
	52	**GROUP 11—AXLES**								
	53	Axle, Driving—Main	1	112-D-16	ORD. IN P.D. ROUGH TURNED	—	—	—	—	—
	54	" " —F. I. & B.	3	112-D-15	" " "	—	—	—	—	—
	55	" "	—							
	56	" " —Key	1 SET	TO SUIT	—	—	—	—	—	—
	57	" Engine Truck	—							
	58	" " " —Collar	—							
	59	" Trailing "	—							
	60	" Marking	1 SET	~~160-D-116~~ 992-A-228	—	—	—	—	—	—
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 12—BELL								
	1	Bell	1	122-A-74	—	—	—	—	12-266	—
	2	" Clapper	1	122-C-66	—	—	—	—	—	EM-402
	3	" " Jaw	1	122-B-66	—	—	—	—	—	EM-401
	4	" Stand	1	122-A-72	—	—	12-264	—	—	—
	5	" Crank	1	"	—	—	—	—	—	EM-403
	6	" Washer	1	122-B-66	FORGED SIZES 2⅞" DIA. x ¼" THICK	—	—	—	—	—
	7	" Yoke	1	122-A-72	—	—	12-159	—	—	—
	8	" " Nut	—							
	9	" " Shaft	1	122-A-72	FIN. SIZES 1⅜" DIA. x 6½"	—	—	—	—	—
	10	" " Jaw Stem	1	122-B-66	FURNISH NUT & COTTER	—	—	—	—	—
	11	" Ringer	1	GOLLMAR	ORD. IN P.O.	—	—	—	—	—
	12	" " Operating Valve	—							
	13	" " Bracket	—							
	14	" Rope Eye (ON SAND BOX)	1	733-A-70	—	12-A-3	—	—	—	—
			1	733-B-70						
	15	" " Thimble	1	122-A-4	FURNISH LOCK STEEL	—	—	—	—	—
	16	" " Guide	—							
	17	" " " Roller	—							
	18	" " Pulley	—							
	19	" " " Hanger	—							
	20									
	21	Gong	—							
	22	BELL FRAME BRACKET ~~Holt~~	1	122-A-73	PLATE-MATL ORD. IN P.O.	122-A-73	—	—	—	—
	23	" " " WASHERS	4	732-B-10	—	—	73-75	—	—	—
	24									
	25									
	26									
	27									
	28	**GROUP 13—BOILER**								
	29	Boiler Plan	1	138A59	—	—	—	—	—	—
	30	" Sections	1	133A24	—	—	—	—	—	—
	31	" Material Bill	1-Set	13M0191	ORD IN P.O	—	—	—	—	—
	32	" Stay Bill	1-Set	13M0193	" " "	—	—	—	—	—
	33	" Test Pressure, Water See Spec	—	250#	—	—	—	—	—	—
	34	" " " Steam " "	—	220#	—	—	—	—	—	—
	35	" Working " "	—	190#	BUILT FOR ZOO	—	—	—	—	—
	36									
	37									
	38									
	39	**GROUP 14—BOILER DETAILS**								
	40	Boiler Bracing								
	41	" Brace Rod ~~Ends~~ JAWS	18	142-A-11	FURNISH PINS.	14-A-8	—	—	—	—
	42	" " " " "	18	142-A-11	"	14-A-5	—	—	—	—
	43	" " " " "	10	142-A-13	"	14-D-6	—	—	—	—
	44	" " " " "	2	~~142-A-128~~ 142-A-81	"	~~310-S-276~~ 14-A-45	—	—	—	—
	45	" " " " "	2	142-A-81	"	14-C-6	—	—	—	—
	46	" " " Lugs	10	142-A-13	—	14-A-9	—	—	—	—
	47	" " " "	18	142-A-11	—	14-A-7	—	—	—	—
	48	" " " "	2	~~142-A-128~~ 142-A-81	—	~~310-S-275~~ 14-A-46	—	—	—	—
	49	" " " "	2	142-A-81	—	14-A-9	—	—	—	—
	50	" " " ~~Jaws~~ ~~LUGS~~ JAWS	10	142-A-13	—	14-B-6	—	—	—	—
	51	" " " "								
	52	" " " "								
	53	" " " "								
	54	" Throat Brace	12	142A53	—	142A53	—	—	—	—
	55	" " "								
	56	" " " Lug								
	57	" " " "								
	58	" Crown Bars								
	59	" " Roof Irons								
	60	" Stay Bolt SCHEDULE	1-Set	132A70	—	—	—	—	—	—
	61	" " " LOCATION (FLEX.)	1-Set	132A69	—	—	—	—	—	—

(Group 14 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS (Cont.)								
	1	Boiler Radial Stay								
	2	" " "								
	3	" " " —Buttonhead								
	4	" Cross Stay								
	5	" " "								
D	6	" Smoke Box Ring	1	138-A-59	—	14-U-88	—	—	—	—
D	7	" Tube Sheet Ring	1	142 A 267	FURNISH STUDS			14-115		
D	8	" Fire Box Ring	1	143 D 21	—	—	—	14-116	—	—
D	9	" " " " Corner F.	1 Set	143 B 22	—	—	—	—	—	—
	10	" " " " " B.								
	11	Boiler Tubes—Small								
	12	" Flues—Large								
	13	" Combustion Tubes								
	14	" Stoker Flues								
	15	" Tube Setting								
	16	" Flue "								
	17	" Combustion Tube Setting								
	18	" Stoker Flue Setting								
B	✓19	" Test Plate	X	1 ✓ 142-B-10 ✓	—	—	—	—	14-91 ✓	—
	20	"								
	21	"								
	22	" Cylinder Saddle (Mallet Engine)								
	23	" Bearing " " "								
	24	" Centering Device Saddle								
D	25	" Waist Sheet Angle ~~or Tee No. 1~~	2	138-A 59	—	14 B-115	—	—	—	—
D	26	" " " " ~~No. 2~~	1	138 A 59	—	14 A 115	—	—	—	—
	27	" " " " " No. 3								
	28	" " " " " No. 4								
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36	**GROUP 15—BOLTS AND NUTS**								
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47	**GROUP 16—BOXES, DRIVING**								
P	✓ 48	Box—Driving, Main ✓	2 ✓	163-A-102 ✓	BRASS FACE CAST ON ✓	—	—	16-232-A ✓	—	—
P	✓ 49	" —Brass " ✓	2 ✓	162-A-82 ✓	CASTING ORD. IN P.D. ✓ ✓	—	—	—	BRONZE ✓	—
P	✓ 50	" —Cellar " ✓	2 ✓	"ELVIN" ✓	ORD. IN P.D. ✓	—	—	—	EB-875 ✓	—
P	✓ 51	" — " Pin " ✓	4 ✓	163-A-102 ✓	—	16-A-1 ✓	—	—	—	—
P	✓ 52	" —Driving, FR. INT. & BK. ✓	6 ✓	163-A-103 ✓	BRASS FACE CAST ON ✓	—	—	16-233-A ✓	—	—
P	✓ 53	" —Brass " " " " ✓	6 ✓	162-A-83 ✓	CASTING ORD. IN P.D. ✓ ✓	—	—	—	BRONZE ✓	—
P	✓ 54	" —Cellar " " " " ✓	6 ✓	"ELVIN" ✓	ORD. IN P.D. ✓	—	—	—	EB-874 ✓	—
P	✓ 55	" — " Pin " " " " ✓	12 ✓	163-A-103 ✓	—	16-A-1 ✓	—	—	—	—
	56	" —Driving	—							
	57	" —Brass	—							
	58	" —Cellar	—							
	59	" — " Pin	—							
P	✓ 60	" —Brass, Plugs	4 ✓	163-A-102 ✓	STICK BRASS ✓	—	—	—	—	—
P	✓ 61	" " "	12 ✓	163-A-103 ✓	" " ✓	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 16—BOXES, DRIVING (Cont.)								
	1	Box—Brass Plugs	—							
	2	" — " Pressed in Box (Tons)	LIMA	STANDARD	—	—	—	—	—	—
	3	" —Hub Liner	—							
	4	" — " "	—							
	5	" — " "	—							
	6									
	7									
	8									
	9									
	10									
	11	**GROUP 17—BOXES, TRUCK**								
	12	Box—Engine Truck								
	13	" —Cellar, Engine Truck								
	14	" " Bolt " "								
	15	" —Brass " "								
	16									
	17	Box— Trailing Truck								
	18	" —Cellar " "								
	19	" —Binder " "								
	20	" — " Bolt " "								
	21	" —Brass " "								
	22	" —Lid " "								
	23	" " Spring " "								
	24	Box— Trailing Truck								
	25	" —Cellar " "								
	26	" —Binder " "								
	27	" — " Bolt " "								
	28	" —Brass " "								
	29	" —Lid " "								
	30	" " Spring " "								
	31									
	32									
	33									
	34									
	35									
	36	**GROUP 18—Brackets**								
	37	Air Gauge Stand	1	182-A-56	—	—	18-413	—	—	—
	38	" " " Bracket	1	182-A-57 ~~160~~ after 1089	—	—	18-414 ~~465~~	—	—	—
	39	Feed Water Heater Gauge Stand	—							
	40	" " " " " Bracket	—							
	41	Pyrometer Gauge Stand	—							
	42	" " " Bracket	—							
	43	Steam Gauge Stand	1	182-B-24	—	—	18-463	—	—	—
	44	" " " Bracket	1	"	PLATE-MATL ORD. IN P.D.	18-B-2	—	—	—	—
	45	" " " Plate	—							
	46	Stoker Gauge	—							
	47	" Gauge Stand Bracket	—							
	48	Intercepting Valve Gauge Bracket	—							
	49									
	50									
	51									
	52									
	53	**GROUP 19—BRAKE, OPERATING**								
	54	Brake Valve	—							
	55	" " Body	—							
	56	" " Cap	—							
	57	" " Nut	—							
	58	" " Follower	—							
	59	" " Handle	—							
	60	" " Bracket—Automatic	1	TO SUIT E.S.	—	TO SUIT E.S.	—	—	—	—
	61	" " " —Independent	1	" " "	—	" " "	—	—	—	—

(Group 19 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 19—BRAKE, OPERATING (Cont.)								
	1	Feed Valve Bracket	1	—	—	19-A-20	—	—	—	—
	2	Distributing Valve Bracket	2	192-A-6	—	19-A-6	—	—	—	—
	3	Control " "	—							
	4									
	5	Brake Relief Valve	—							
	6	" " " Cap	—							
	7	" " " Stem	—							
	8	" " " Spring	—							
	9									
	10	Main Reservoir	2	20½" x 102"	ORD. IN P.D.	—	—	—	—	—
	11	" "	—							
	12	" " Supports	4	193-D-3	—	—	—	19-35	—	—
	13	" " "	—							
	14	" " "	—							
	15	" " "	—							
	16	" " "	—							
	17	" " "	—							
	18	" " Blocks	—							
	19	" " Straps	4	193-D-3	—	19-C-2	—	—	—	—
	20	" " "	—							
	21	" " "	—							
	22	" " " U Bolts	4	193-D-3	—	19-C-4	—	—	—	—
	23	" " " " "	—							
	24	" " " " "	—							
	25	Air Turret	1	192-A-160	—	—	—	—	19-25	~~EM-459~~
	26									
	27	Air Pump Bracket	1	192-~~B~~D-5	—	—	—	19-37	—	—
	28	" " "	—							
	29	" " " Brace	1	192-~~B~~D-5	PLATE-MATL. ORD. IN P.D.	19-~~B~~C-7	—	—	—	—
	30	" " " "	—							
	31	" Pump Strainer Support	1	192-C-12	—	192-C-12	—	—	—	—
	32	" " " "	—							
	33	Equalizing Reservoir Support	2	192-B-108	—	192-B-108	—	—	—	—
	34									
	35									
	36	Air Pump Drip Pan	—							
	37	" " " "	—							
	38	" " " " Support	—							
	39	" " " " "	—							
	40									
	41									
	42									
	43	**GROUP 20—BRAKE, FOUNDATION**								
	44	Brake Arrangement (Foundation)	1 SET	AMER. BK. CO'S PRINT No. 996	ORD. IN P.D.	—	—	—	—	—
	45	" Bell Crank								
	46	" " " Fulcrum								
	47	" Shaft								
	48	" " Bearing								
	49	" " "								
	50	" " Arms								
	51	" " Handle								
	52	" Cam								
	53	" " Sleeve								
	54	" Beams								
	55	" "								
	56	" "								
	57	" Equalizer								
	58	" "								
	59	" "								
	60	" Fulcrums								
	61	" "								

(Group 20 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE, FOUNDAT'N (Cont.)								
	1	Brake Hangers								
	2	" "								
	3	" Levers								
	4	" "								
	5	" "								
	6	" Rods								
	7	" "								
	8	" "								
	9	" Adjusting Nuts								
	10	" " "								
	11	" Safety Straps								
	12	" " "								
	13	" Heads								
	14	" "								
	15	" Shoes								
	16	" "								
	17	" " Key								
	18	" " Spring								
	19	"								
	20	" Cylinder								
	21	" " Heads								
	22	" " "								
	23	" " Gland								
	24	" " " Nut								
	25	" " Support								
	26	" Piston								
	27	" " Rod								
	28	" " Follower								
	29	" " Rings								
	30	" Push Rod								
	31									
	32									
	33									
	34									
	35	**GROUP 21—BUMPERS**								
	36	Bumper—Front	1	217-A-1	FURNISHED WITH COUPLER	—	—	—	—	—
	37	" Knees - R.H.	1	212-A-91	—	—	—	21-60	—	—
	38	" " - L.H.	1	"	—	—	—	21-61	—	—
	39	" Brace	—							
	40	" "	—							
	41	" Push Pole Pocket	—							
	42	"	—							
	43	"	—							
	44	"	—							
	45	" Plate	—							
	46	" "	—							
	47	" " Support	—							
	48	" Scroll Iron	—							
	49	Bumper—Back	—							
	50	" Crosstie	—							
	51	" Brackets								
	52									
	53									
	54									
	55									
	56									
	57	**GROUP 22—CAB**								
	58	Cab	1	227-A-42	—	—	—	—	—	—
	59	" Material Bill	1 SET	22-M0-13	MATL. ORD. IN P.O.	—	—	—	—	—
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS								
P	1	Cab Angle—Roof	1 SET	227-A-42	—	—	—	—	—	—
	2	" Tee Iron	—							
	3	" Roof Brace	—							
P	4	" Gutter	2	227-A-42	—	—	—	—	—	—
	5	" Corner Iron	—							
	6	" " Bracket	—							
P	7	" Window Frame	1 SET	227-A-42	WOOD-GLAZED	—	—	—	—	—
	8	" " Slide	—							
	9	" " Stop	—							
	10	" " Shield	—							
	11	" " Sash Fixture	—							
	12	" " " "	—							
P	13	" Storm Window Arrangement	1 R 1 L	PRIME-SELF LOCKING TYPE	ORD. IN P.D.	—	—	—	—	—
	14	" " " Frame	—							
	15	" " " Sash	—							
	16	" " " Dog	—							
	17	"								
P	18	" Door Frame	1 SET	227-A-42	WOOD-GLAZED	—	—	—	—	—
	19	" " "	—							
	20	" " "	—							
	21	" " "	—							
P	22	" " Fixture FIT UP R. & L.	2 SETS	232-A-~~336~~ 19	FURNISH RIVETS WOOD SCREWS ETC.	—	—	—	—	—
P	23	" " " Bracket	4	"	"	—	—	—	—	EM-~~36~~ 431
P	24	" " " Slide	2	"	"	—	—	—	—	EM-~~37~~ 430
P	25	" " ~~Clamp~~ CLAMP-EYE BOLT ~~Fulcrum~~ FULCRUM	2	"	23-A-10	—	—	—	—	EM-38
P	26	" " " ~~Rod~~ ROD ~~CLAMP BOLT~~	2	"	23-A-9 ~~500-S-167~~	—	—	—	—	—
P	27	" " ~~Slide~~ SLIDE ROD " " WINGNUT	2	"	"	—	—	—	—	~~EM-41~~
P	28	" " Fulcrum	2	"	"	—	—	—	—	EM-428
P	29	" " Handle	2	"	"	—	—	—	—	EM-429
	30									
P	31	Cab Ventilator—Centre	1	~~500-D-282~~ 232-A-442	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
P	32	" " ~~Rigging~~ FRAME	1	"	FURNISH PINS & COTTERS	—	—	23-231	—	~~EM-19~~
P	33	" " ~~Shaft~~ HINGE	2	"	500-S-141	—	—	—	—	—
P	34	" " ~~Arms~~ RIGGING	2 SETS	232-A-336	FURNISH RIVETS WOOD SCREWS ETC.	—	—	—	—	—
P	35	" " ~~Rod~~ BRACKET	2	"	—	—	—	—	—	—
P	36	" " ~~Handle~~ SLIDE	2	"	—	—	—	—	—	EM-36
	37	" " " Washer								EM-39
P	38	" " ~~Latch~~ CLAMP BOLT	2	232-A-336	500-S-167	—	—	—	—	—
P	39	" " " Fulcrum	2	"	—	—	—	—	23-440	~~EM-38~~
P	40	" " Thumb Screw	2	"	—	X	—	—	23-439	~~EM-41~~
P	41	" " ~~Sides~~ FRONT (WINDOW)	2	232-C-319	PLATE-MATL. ORD. IN P.D.	X	—	—	—	—
P	42	" " ~~Angle Sides~~ HINGES	4	"	COMMERCIAL BUTT ORD. IN P.D.	—	—	—	—	—
P	43	" " ~~Ends~~ CATCH	2	"	—	—	—	—	23-250	~~EM-7~~
P	44	" " ~~Handles~~ QUADRANT	2	"	500-S-140	—	—	—	—	—
P	45	" " ~~Bars~~ " " HINGE	2	"	—	—	—	—	23-248	~~EM-6~~
P	46	" Bracket	1	233-~~J~~ K-12	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
P	47	" " Angle	1 SET	"	MATL. ORD. IN P.D.	—	—	—	—	—
	48	" Brace	—							
	49	" " Lug	—							
P	50	" Saddle	2	227-A-42	—	23-C-25	—	—	—	—
P	51	" Firing Deck	1	232-D-36	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
P	52	" Apron	1	232-A-20	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
P	53	" " Hinge	4	232-A-16	—	—	—	23-87	—	~~EM-37~~
P	54	" " Link	2	232-A-20	—	23-A-8	—	—	—	—
	55	"	—							
	56	" Gangway Chain	—							
P	57	" Arm Rest	2	232-B-23	UPHOLSTERED COVERING ORD. IN P.D.	—	—	—	—	—
P	58	" Seat (Engineer) & FIREMEN	1 R 1 L	232-A-37	WOOD UPHOLSTERED WITH MOSS & HAIR & COVERED WITH OIL CLOTH ORD. IN P.D.	—	—	—	—	—
P	59	" " Cushion	2	"	ORD. IN P.D.	—	—	—	—	—
P	60	" " ~~Post~~ BOX HASP	2	"	4" COMMERCIAL ORD. IN P.D.	—	—	—	—	—
P	61	" " Hinge	4	"	5" STRAP-COMMERCIAL	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS (Cont.)								
✓	1	Cab Seat ~~Rod~~ BACK BRACE	2	232-A-37	PLATE-MATL ORD. IN P.D.	—	—	—	—	—
✓	2	" " — Spring (UPHOLSTERY)	2 SETS	"	ORD. IN P.D.	—	—	—	—	—
✓	3	" " ~~(Fireman)~~ BACK REST	2	"	WOOD. UPHOLSTERED	—	—	—	—	—
	4	" " Cushion	—							
	5	" " Post	—							
	6	" " Hinge	—							
	7	" " Rod	—							
	8	" " Spring	—							
	9	" " (Brakeman)	—							
	10	" " Cushion	—							
	11	" " Post	—							
	12	" " " Fulcrum	—							
	13	" " Hinge	—							
	14	" " Spring	—							
	15	" Clothes Box	—							
	16	" " " Hinge	—							
	17	" " " Hasp	—							
✓	18	" Inspection Frame—Large	1	232-A-30	ORD. IN P.D. COMPLETE	—	—	—	—	—
✓	19	" " " —Small	1	232-A-29	ORD. IN P.D. COMPLETE	—	—	—	—	—
	20	" " " —Location	—							
✓	21	" Train Order ~~Hook~~ BOARD	1	~~520-D-340~~ 232-A-435	HARDWOOD	—	—	—	—	—
✓	22	" ~~Curtain~~ " BACK " KNOB	1	" "	STICK BRASS	—	—	—	—	—
✓	23	" " ~~Rod~~ " BACK " SPRING	2	" "	MATL. ORD IN P.D.	—	—	—	—	—
✓	24	" " ~~Hooks~~ " CLIP	1	" "	FORGED SIZES $\frac{1}{8}$" × $\frac{1}{2}$" × 5$\frac{3}{4}$"	—	—	—	—	—
	25	" " Eye Bolts	—							
	26	" " Side	—							
	27	" " Rod, Side	—							
	28	" " Anchor Rod	—							
	29	" " "S" Hooks	—							
	30	" " Eye Bolts	—							
	31	" Awning	—							
✓	32	" FIRE CARD CASE	1	~~520-D-73~~ 232-A-436	TIN	—	—	—	—	—
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42	**GROUP 26—COCKS AND VALVES**								
	43	Angle Valve								
	44	" " Cap								
	45	" " Stem								
	46	" " Gland								
	47	" " Nut								
	48	" " Handle								
	49									
	50									
✓	51	Ash Pan Valve	1	1$\frac{1}{2}$" OKADEE	ORD. IN P.D.	—	—	—	—	—
	52	" " " Cap	—							
	53	" " " Stem	—							
	54	" " " Gland	—							
	55	" " " Nut	—							
	56	" " " Handle	—							
	57									
✓	58	Bell Ringer Valve	1	FURNISHED WITH BELL RINGER	ORD. IN P.D.	—	—	—	—	—
✓	59	" " " SHUTOFF	1	$\frac{3}{8}$" CRANE NO. 1811	" " "	—	—	—	—	—
	60									
	61									

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont,)								
	1	Booster Drain Cock	—							
	2	" Throttle Valve	—							
	3	" Valve	—							
	4									
	5									
	6									
	7									
	8									
	9									
B	10	Blower Valve - ANGLE	1	1" CRANE 1/4 NO. 1811	ORD. IN P.D. ✓	—	—	—	—	—
B	11	" " ~~Cap~~ AUXILIARY ✓	1 ✓	1" SARGENT 1/4 QUICK OPENING	" " " ✓	—	—	—	—	—
B	✓12	" " ~~Stem~~ " RIGGING ✓	1 SET ✓	262-A-21 ✓	—	—	—	—	—	—
B	✓13	" " ~~Stand~~ " EXTENSION ✓	1 ✓	" ✓	—	—	—	—	—	—
B	✓14	" " ~~Nut~~ " " SLEEVE ✓	1 ✓	" ✓	FURNISH ✓ SET SCREWS ✓	—	—	—	—	—
P	✓15	" " ~~Handle~~ " " BRACKET ✓	1 ✓	" ✓	—	26-A-4 ✓	—	—	—	—
	16									
B	17	Blow Off Cock (IN THROAT)	1	2" OKADEE 2 FLANGED TYPE	ORD. IN P.D. ✓	—	—	—	—	—
	18	" " " Cap	—							
	19	" " " Plug	—							
	20	" " " Nut	—							
	21	" " " Washer	—							
	22	" " " Handle	—							
B	23	" " " Joint Ring	1 ✓	262-B-104 ✓	—	—	—	—	79-859 ✓	—
	24	" " " Extension	—							
	25	" " " "								
	26									
	27	Blow Off Valve	—							
	28	" " " Cap	—							
	29	" " " Stem	—							
	30	" " " Gland	—							
	31	" " " Nut	—							
	32	" " " Handle	—							
	33									
B	34	Cab Heater Valve	2	1" CRANE 1/4 No. 1805	ORD. IN P.D. ✓	—	—	—	—	—
B	35	" " DRAIN VALVE	2	1" CRANE No. 7. 1/4 LEVER HANDLE	" " " ✓	—	—	—	—	—
	36									
	37									
	38	Coal Sprinkler Valve	—							
	39	" " " Cap	—							
	40	" " " Stem	—							
	41	" " " Gland	—							
	42	" " " Nut	—							
	43	" " " Handle	—							
	44									
B	✓45	Cylinder Cock Body	4 ✓	262-A-3 ✓	—	—	—	—	—	EM-423 ✓
	46	" " Shank	—							
B	✓47	" " Valve	4 ✓	262-A-3 ✓	—	26-A-2 ✓	—	—	—	—
	48	" " Nipple	—							
	49	Port Cock	—							
	50	" " Shank	—							
	51	" " Valve	—							
P	52	DRIP COCK ✓ (BLOWER LINE)	1 ✓	262-A-16 ✓	ORD. IN P.D. ✓	—	—	—	—	—
	53	Drip Valve	—							
	54	" " Cap	—							
	55	" " Stem	—							
	56	" " Gland	—							
	57	" " Nut	—							
	58	" " Handle	—							
	59									
	60									
	61									

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
P	1	Dynamo Valve	1	1/2" CRANE No. 1811	ORD. IN P.D.	—	—	—	—	—
	2	" " Cap	—							
	3	" " Stem	—							
	4	" " Gland	—							
	5	" " Nut	—							
	6	" " Handle	—							
	7									
	8	Feed Water Heater Valve	—							
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18	Grate Shaker Valve	—							
	19	" " " Cap	—							
	20	" " " Stem	—							
	21	" " " Gland	—							
	22	" " " Nut	—							
	23	" " " Handle	—							
	24									
P	25	Inj. ~~Starting~~ STEAM Valve	2	2 1/2" NATHAN 1918 SPECL: A	ORD. IN P.D.	—	—	—	—	—
	26	" " " Cap	—							
	27	" " " Stem	—							
	28	" " " Gland	—							
	29	" " " Nut	—							
P	30	" " " Handle	2	263-A-1		—	—	—	26-65	~~EM-404~~
	31	" " " Extension	—							
	32	" " " Flange	—							
P	33	LOW WATER ALARM VALVES	1	1/2" CRANE No. 1805	ORD IN P.D.	—	—	—	—	—
P	34	Lubricator Valve	1	3/4" CRANE No. 1811 OUTLET FOR 5/8" O.D. COPPER	ORD. IN P.D.	—	—	—	—	—
	35	" " Cap	—							
	36	" " Stem	—							
	37	" " Gland	—							
	38	" " Nut	—							
	39	" " Handle	—							
	40	" " Extension	—							
P	41	" HEATER VALVE	1	3/4" CRANE No. 1805	ORD. IN P.D.	—	—	—	—	—
	42	Oil Stock	—							
	43	" " Cap	—							
	44	" " Plug	—							
3	45	" " Nut	—							
	46	" " Washer	—							
	47	" " Handle	—							
	48									
P	49	Power Reverse Angle Valve	1	3/4" CRANE No. 1811	ORD. IN P.D.	—	—	—	—	—
	50	" " " " Cap	—							
	51	" " " " Stem	—							
	52	" " " " Gland	—							
	53	" " " " Nut	—							
	54	" " " " Handle	—							
	55									
P	56	Power Reverse Cut Out Cock	1	3/4" WESTINGHOUSE Pc. No. 2233	ORD. IN P.D.	—	—	—	—	—
P	57	" " CHECK VALVE	1	3/4" CRANE No. 92-E	" " "	—	—	—	—	—
	58									
	59									
	60									
	61									

(Group 26 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Power Reverse Globe Valve	1	3/4" CRANE No. 1805	ORD. IN P.D.					
	2	" " " " Cap								
	3	" " " " Stem								
	4	" " " " Gland								
	5	" " " " Nut								
	6	" " " " Handle								
	7									
	8	Power Reverse 3-Way Cock								
	9	" " " " Bracket								
	10	SANDER VALVE	1	VILOCO DUPLEX #246	FURNISHED WITH SANDER					
	11	Steam Gauge Cock	1	262-B-129					26-236	
	12	" " " Cap								
	13	" " " Plug	1	262-B-129	FURNISH GRIP NUT & WASHER				26-230	
	14	" " " Nut	1	"	STICK BRASS					
	15	" " " ~~Washer~~ STEM	1	"	" "					
	16	" " " ~~Handle~~ EXTENSION	1	"					26-237	
	17									
	18	Test Gauge Cock	1	~~550-D-166~~ 262-B-213					26-232	
	19	" " " Cap	1	"	STICK BRASS					
	20	" " " Plug	1	"	FURNISH GRIP NUT & WASHER				26-230	
	21	" " " ~~Nut~~ CHAIN	1	"						
	22	" " " ~~Washer~~ EXTENSION	1	"					26-231	
	23	" " " Handle								
	24									
	25	Water Column Drain Valve	1	1" CRANE No. 1805	ORD. IN P.D.					
	26	" Gauge " "	2	3/8" CRANE No. 1805	ORD. IN P.D.					
	27									
	28									
	29									
	30	Universal Joint (BLOWER, AIR PUMP & REV. GEAR)	6	262-A-163	FURNISH PINS				26-278	
	31	" " BLOCK (" " ")	3	"	STICK BRASS					
	32	" " — (DYNAMO)	2	262-J-163	FURNISH PINS				26-278	
	33	" " BLOCK (")	1	"	STICK BRASS					
	34	" " (WATER GLASS)	2	262-A-163	FURNISH PINS				26-278	
	35	" " BLOCK (" ")	1	"	STICK BRASS					
	36	" " (WATER GLASS)	2	552-A-75	FURNISH PINS				55-147	
	37	" " BLOCK (" "	1	"	STICK BRASS					
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47	**GROUP 27—COCKS AND VALVES**								
	48	Gauge Cock BODY	3	~~D-42009~~ 272-B-185 LINE 2					26-228	
	49	" " ~~Valve~~ SPOUT	3	"	STICK BRASS					
	50	" " ~~Cap~~ GASKET	3	"	" "					
	51	" " Stem	3	"	"					
	52	" " Gland	3	"						
	53	" " Nut	3	"	HEX. STEEL				26-229	
	54	" " Handle	3	2" CRANE (N-H.)	ORD. IN P.D.					
	55	" " Extension								
	56	" " Dripper	1	272-A-94		27-339				
	57									
	58	Water Column Release 4/30 ~~HOLD #26~~	1	272-A-134					27-384	
	59	" " Support	1	To Suit	3/4" x 2" W.I.					
	60	" " Bottom Extension	1	272-B-137					27-425	
	61	" " " " ~~Sleeve~~ NIPPLE	1	"					27-387	
	62	" ~~(Group 27 Continued)~~ " " " NUT	1	"					27-386	

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS & VALVES (Cont.)								
	1	Water Column Top Extension	1	272-B-135					27-263	
	2	" " " " Sleeve	2	"					27-343	
	3	" " Extension Sleeve Nuts	2	"					27-386	
	4	" " Plug	1	272-B-137	STICK BRASS					
	5	" " BOSS ON BACKHEAD	1	272-A-162						
	6									
	7									
	8	Water Gauge Guard	2	EDNA REFLEX M-5	ORD. IN P.D.					
	9	" " " Slip Joint	—							
	10	" " Upper Fitting R.S.	1	272-C-140	~~ORD. IN P.D.~~ STICK BRASS	STICK BRASS				
	11	" " " " ~~Cap~~ NUT	1	272-A-140	"	" "				
	12	" " " " Valve	1	272-B-139	"				27-389 ~~27-389~~	
	13	" " " " Stem	1	"	STICK BRASS	STICK BRASS				
	14	" " " " Gland	1	"	"				27-390 ~~27-390~~	
	15	" " " " Nut	1	"	STICK BRASS	STICK BRASS				
	16	" " " " ~~Washer~~ PLUG	1	272-F-140	"	" "				
	17	" " " " Handle	1	262-A-93	3" CRANE N-H 1/4 FIT TO STEM	~~ORD. IN P.D.~~ FIT TO STEM				
	18	" " Lower Fitting	1	272-A-139	~~ORD. IN P.D.~~ STICK BRASS	STICK BRASS				
	19	" " " " ~~Cap~~ NUT	1	"	"	" "				
	20	" " " " Valve	1	"	"	" "			27-389 ~~27-389~~	
	21	" " " " Stem	1	"	STICK BRASS	STICK BRASS				
	22	" " " " Gland	1	"	"				27-390 ~~27-390~~	
	23	" " " " Nut	1	"	STICK BRASS	STICK BRASS				
	24	" " " " ~~Washer~~ PLUG	—							
	25	" " " " Handle	1	262-A-93	3" CRANE N-H 1/4 FIT TO STEM	FIT TO STEM ORD. IN P.D.				
	26	" " ~~Glass~~ UPPER FITTING	1	272-E-140	~~ORD. IN P.D.~~ STICK BRASS	STICK BRASS				
	27	" " ~~Guard~~ "	1	272-D-140	"	" "				
	28	" " " ~~Glass~~ " NUT	1	272-B-140	"	" "				
	29									
	30	" " ~~Cap~~ CONNECTION LOWER L.S.	1	272-A-164	~~ORD. IN P.D.~~ STICK BRASS	STICK BRASS				
	31	" " VALVE	1	"	"				27-426 ~~27-426~~ 27-369	
	32	" " ~~Cap~~ CONNECTION NUT	1	"	STICK BRASS	STICK BRASS				
	33	" " Stem	1	"	"	" "				
	34	" " Gland	1	"	"	" "				
	35	" " Nut	1	"	"	" "				
	36	" " Handle	1	262-A-93	3" CRANE N-H 1/4 FIT TO STEM	FIT TO STEM ORD. IN P.D.				
	37	" " ~~Extension~~ CONNECTION	1	272-A-165	~~ORD. IN P.D.~~				27-374 ~~27-374~~	
	38	" " " PLUG	1	"	STICK BRASS	STICK BRASS				
	39	" " " "	—							
	40	" " " - UPPER	1	272-E-140	~~ORD. IN P.D.~~	STICK BRASS				
	41	" " " FITTING "	1	272-D-140	"	" "				
	42	" " " " NUT "	1	272-B-140	"	" "				
	43	" " VALVE - UPPER	1	1/2" CRANE #1803 SPECIAL	ORD. IN P.D.					
	44	Valve Extension Handle Guide ARRGT	1	273-A-54	FURNISH WASHERS					
	45	" " " "	1	"		27-A-28				
	46	" " — (BLOWER, AIR PUMP & REV. GEAR)	3	262-A-163						
	47	" " — (DYNAMO)	1	262-J-163						
	48	WATER GLASS VALVE EXTENSION (UPPER)	1	632-A-544		STICK BRASS				
	49									
	50	**GROUP 28—COCK RIGGING**								
	51	Blow-off Cock Rigging	1 SET	282-A-141	FURNISH PIN					
	52	" " " Arm	—							
	53	" " " Crank	—							
	54	" " " Handle	—							
	55	" " " Lever	—							
	56	" " " Rod	1	282-A-141		28-A-200				
	57	" " " ~~Shaft~~ BRACKET	1	"		28-A-201				
	58	" " " Hanger	—							
	59	" " " Yoke	—							
	60	" " " Stop	—							
	61	" " " End	—							

(Group 28 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 28—COCK RIGGING (Cont.)								
	1	BLOWOFF COCK ROD - ASH PAN SWIPE	1	282-A-141	—	28-A-200	—	—	—	—
	2	" " " PIN	1	"	—	—	—	—	—	—
	3	Cylinder Cock Rigging	1 SET	282-A-10 ✓	FURNISH PINS ✓	—	—	—	—	—
	4	" " Arm - R.S. ✓	1 ✓	" ✓	—	28-A-30 ✓	—	—	—	—
	5	" " " - L.S. ✓	1 ✓	" ✓	—	28-A-37 ✓	—	—	—	—
	6	" " Lever	—							
	7	" " " Fulcrum	—							
	8	" " Rod JAWS ✓	2 ✓	282-A-10 ✓	WELD TO 5/8" ✓ DIA. ROD. ✓	28-A-17 ✓	—	—	—	—
	9	" " " Supports	—							
	10	" " Shaft ✓	1 ✓	282-A-10 ✓	MATL. ORD. ✓ IN P.D. ✓	—	—	—	—	—
	11	" " " COLLARS ✓ ~~Hangers~~	2 ✓	"	FORGED SIZES ✓ 3" DIA. x 1" THICK ✓	—	—	—	—	—
	12	" " " Bearing	—							
	13	" " Slide Bar ✓	2 ✓	282-A-10 ✓	—	28-A-36 ✓	—	—	—	—
	14	" " " " Connection ✓	1R ✓ 1L ✓	" ✓	—	28-A-29 ✓	—	—	—	—
	15	" " Treadle - LEVER ✓ IN CAB ✓	1 ✓	282-C-5 ✓	—	—	—	—	—	EM-443 ✓
	16	" " ~~Operating Cylinder~~ FULCRUM ✓	1 ✓	" ✓	FURNISH PIN ✓	—	28-88 ✓	—	—	—
	17	" " " " Support								
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33	Main Reservoir Drain Cock Rigging	—							
	34	" " " " " Handle	—							
	35	" " " " " Support	—							
	36									
	37									
	38									
	39	Oil Cock Rigging	—							
	40	" " Arms	—							
	41	" " Lever	—							
	42	" " Rod	—							
	43	" " Shaft	—							
	44	" " " Hanger	—							
	45									
	46									
	47									
	48									
	49	**GROUP 29—CRANK PINS**								
	50	Crank Pin—Main	2 ✓	292-D-8 ✓	MATL. ORD. ✓ IN P.D. ✓	29-E-7 ✓	—	—	—	—
	51	" " —F.	2 ✓	292-D-9 ✓	" " ✓	29-B-8 ✓	—	—	—	—
	52	" " —Int.	2 ✓	292-E-10 ✓	" " ✓	29-C-9 ✓	—	—	—	—
	53	" " —Back	2 ✓	292-F-10 ✓	" " ✓	29-D-9 ✓	—	—	—	—
	54	" "	—							
	55	" " Collars—Main	—							
	56	" " " —F.	2 ✓	292-D-9 ✓	—	29-A-10 ✓	—	—	—	—
	57	" " " —Int.	2 ✓	292-E-10 ✓	FIN. SIZES ✓ 1 1/4" DIA. x 1/2" THICK	—	—	—	—	—
	58	" " " —B.	2 ✓	292-F-10 ✓	" " " ✓	—	—	—	—	—
	59	" " Nuts I & B ✓	4 ✓	292-E-10 ✓	FIN SIZES. ✓ 3 1/8" HEX. x 1 1/2" THICK	—	—	—	—	—
	60	Pressed Into Wheels (Tons) F. I. & B ✓		48 ✓ TO 56 ✓ TONS	—	—	—	—	—	—
	61	~~Crank Pin Marking~~ " M ✓		104 ✓ TO 112 ✓ TONS	—	—	—	—	—	—
	62 ✓	CRANK PIN MARKING ✓ ~~(Group 29 Continued)~~	1 SET	~~160-D-116~~ 992-A-228 ✓	—	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 29—CRANK PINS (Cont.)								
	1									
	2									
	3	**GROUP 30—CROSSHEAD**								
8	4	Crosshead—Body	1R 1L	303-B-25	—	—	—	ELECT. C.S. 30-64	—	—
8	5	" Wrist Pin	2	302-A-57	MATL. ORD. IN P.D.	30-E-3	—	—	—	—
8	6	" " " Washer	2	"	HIGH CARBON STEEL FIN. SIZES	30-C-2	—	—	—	—
8	7	" " " ~~Bearing~~ "	2	"	5¼" DIA. × ⅜" THICK	—	—	—	—	—
8	8	" " " Grease Plugs	2	"	FURNISH NUT	—	—	—	—	—
8	9	" " " Nuts	2	"	FIN. SIZES 3" HEX. × 1¼" THICK	—	—	—	—	—
8	10	" Key	2	303-B-25	MATL. ORD. IN P.D.	30-A-1	—	—	—	—
	11	" Plate	—							
	12	" Arm	—							
	13	" " Bushing	—							
8	14	" Shoe—Top BABBITTED	2	302-A-68 PATT. 303-B-25	CASTING ORD. IN P.D.	—	H.S. GUN IRON 30-224	—	—	—
8	15	" " —Bottom "	2	"	" " "	—	H.S. GUN IRON 30-224	—	—	—
	16	" Wrist Pin Marking	—							
	17									
	18									
8	19	**GROUP 31—CYLINDER** PAIRED	2	317-P-4	—	—	31-154	—	—	—
	20									
	21									
8	22	Cylinder Bushing	2	317-P-4	CASTING ORD. IN P.D.	—	H.S. GUN IRON HS-6251	—	—	—
	23									
	24									
	25									
	26									
	27									
	28	**GROUP 32—CYLINDER DETAILS**								
8	29	Cylinder Head—Front	2	323-C-10	—	—	—	32-233	—	—
8	30	" " —Back	2	"	—	—	—	32-234 B	—	—
8	31	" " Cover—Front	2	~~322-A-10~~ M	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
8	32	" " " —Back	2	"	" " "	—	—	—	—	—
8	33	Casing Clamp - BACK	4	"	¼" × 1¼" × 4"	—	—	—	—	—
	34	" Nut	—							
8	35	Steam Chest Head—Front	2	324-E-2	—	—	32-167	—	—	—
8	36	" " " —Back	2	323-A-4 PATT. 324-E-2	—	—	—	32-157	—	—
8	37	" " " Cover—Front	2	322-B-197	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
8	38	" " " " —Back	1R 1L	"	" " "	—	—	—	—	—
8	39	" " " " Clips	4	"	—	—	—	—	—	—
8	40	" " Bushing	4	322-A-198	CASTING ORD. IN P.D.	—	H.S. GUN IRON 32-158	—	—	—
	41									
	42									
	43									
	44	Valve Rod Crosshead Guide	—							
8	45	" " " " Wearing Plate	8	324-E-2	—	—	32-168	—	—	—
8	46	" " " " LINERS	8	"	FIN. SIZES 1" × 1⅝" × 3"	—	—	—	—	—
8	47	" " " " "	8	"	FIN. SIZES 5" 1/16" × 1⅝" × 3⅜"	—	—	—	—	—
	48	Steam Chest	—							
	49	" " Caps	—							
	50	" " Balance Plates	—							
	51	" " Covers	—							
	52	" " Casings	—							
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 33—CYL. COMPOUND AT'CHM'TS								
	1	Intercepting Valve Arrangement								
	2	" " Chamber								
	3	" " " Cap								
	4	" " " "								
	5	" " " " Pack'g Ring								
	6	" " Snap Rings								
	7	" " " "								
	8	" " Bushing								
	9	" " Stem								
	10	" " " Nut								
	11	" " Spring								
	12	" " Lock Stud								
	13	" " Disc								
	14	" " Chamber Joint Ring								
	15	" " Pipe Flange								
	16	" " Bracket								
	17	" " Dash Pot								
	18	" " " " Piston								
	19	" " " " Head								
	20									
	21									
	22									
	23									
	24									
	25	Receiver Pipe Arrangements								
	26	" "								
	27	" " Sleeve								
	28	" " Flange								
	29	" " Ball Joint								
	30	" " " " Packing Flange								
	31	" " " " " Rings								
	32	" " " " " "								
	33	" " Straps								
	34	" " Supports								
	35	" "Y" Pipe								
	36	" " " Casing								
	37	" " " "								
	38	" " " "								
	39	" " " "								
	40	" " " "								
	41	" " " Joint Ring								
	42									
	43									
	44	Reducing Valve	—							
	45									
	46									
	47									
	48									
	49	Separate Exhaust Valve	—							
	50									
	51									
	52									
	53									
	54	Starting Valve	—							
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 34—CYL. BY-PASS & RELIEF VALVE								
	1	By-Pass Valve								
	2	" " Casing								
	3	" " Cap								
	4	" " Nut								
	5	" " Stem								
	6	" " Spring								
	7	" " Piston								
	8	" " Ring								
	9									
	10	Cyl. Head Relief Valve								
	11	" " " " Cap								
	12	" " " " Nut								
	13	" " " " Stem								
	14	" " " " Casing								
	15	" " " " Spring								
	16									
	17	Cyl. Relief Valve								
	18	" " " Cap								
	19	" " " Nut								
	20	" " " Stem								
	21	" " " Spring								
	22									
	23	St. Chest Relief Valve								
	24	" " " " Cap								
	25	" " " " Nut								
	26	" " " " Stem								
	27	" " " " Spring								
	28	" " Vacuum Valve								
	29	" " " " Cap								
	30	" " " " Nut								
	31	" " " " Stem								
	32	" " " " Spring								
	33									
	34									
	35									
	36									
	37	**GROUP 35—DIE WORK**								
	38	Flanging Dies	1-Set	352-A-204	—	—	—	—	—	—
	39									
	40									
	41									
	42									
	43									
	44									
	45	**GROUP 36—DOME**								
	46	Dome	1	362-H-8	—	—	—	—	—	—
	47	" Flange	—							
	48	" Ring	—							
	49	" Cap	1	362-J-9	—	—	—	—	—	—
	50	" Casing	1	363-G-3	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
	51	" Shut Off Valve								
	52	" " " " Cap								
	53	" " " " Casing								
	54	" " " " Stuffiing Box								
	55	" " " " Packing								
	56	" " " " Nut								
	57	" " " " Gland								
	58	" " " " Stem								
	59	" " " " Universal Joint								
	60	" " " " Handle								
	61									

(Group 36 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 36—DOME (Cont.)								
	1									
	2									
	3									
	4	Auxiliary Dome	—							
	5	" " Cap	—							
	6	" " Casing	—							
	7									
	8									
	9	**GROUP 37—DRAWGEAR**								
✓	10	Coupler—Front COMPLETE WITH FRICTION DRAFT GEAR & PILOT BEAM ✓	1 ✓	6"×8" ✓	ORD. IN P.D. ✓	—	—	—	—	—
✓	11	" Uncoupling Shaft	1 ✓	372-A-219 ✓	—	37-A-73 ✓	—	—	—	—
✓	✓ 12	" " " Bracket	3 ✓	372-A-90 ✓	—	—	37-340 ✓	—	—	—
✓	13	" " " " RIGGING ✓	1 SET ✓	"STA-RITE" ✓	ORD. IN P.D. ✓	—	—	—	—	—
	14	" " " Handle	—							
	15	" Drawhead	—							
	16	Buffer—Front	—							
✓	✓ 17	Drawbar—Between Eng. & Tender ✓	1 ✓	372-A-217 ✓	ORD. IN P.D. ✓ SMOOTH FORGED ✓	—	—	—	—	—
✓	✓ 18	" Pin ✓	1 ✓	372-A-9 ✓	—	372-A-9 ✓	—	—	—	—
✓	✓ 19	Safety Bar ✓	1 ✓	372-A-218 ✓	ORD. IN P.D. ✓ SMOOTH FORGED ✓	—	—	—	—	—
	20	" " Pin	—							
	21	" Chain	—							
	22	" " Clevis	—							
	23	" " Pin	—							
✓	✓ 24	Radial Buffer ✓	1 ✓	374-A-1 ✓	ORD. IN P.D. ✓	—	—	—	—	—
✓	✓ 25	DRAWBAR PIN KEEPER ✓	1 ✓	473-E-8 ✓	PLATE-MATL ✓ ORD. IN P.D. ✓	—	—	—	—	—
	26	Chafing Plate	—							
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35	**GROUP 39—ECCENTRIC**								
✓	36	Eccentric Crank	2 ✓	393-K-2 ✓	MATL. ORD. ✓ IN P.D. ✓	39-A-13 ✓	—	—	—	—
	37	" " Bolt	—							
✓	38	" " Key	2 ✓	393-K-2 ✓	STEEL ✓	—	—	—	—	—
✓	39	" " Location	SEE ✓	ERECT. CARD ✓	—	—	—	—	—	—
✓	40	" " Pin	2 ✓	393-K-2 ✓	MATL. ORD. ✓ IN P.D. ✓	39-A-6 ✓	—	—	—	—
✓	41	" " " Washer	2 ✓	" ✓	FIN. SIZES ✓ 4¼" DIA. × ⅜" THICK	—	—	—	—	—
✓	42	" Rod	1 R ✓	" ✓	MATL. ORD. ✓	39-A-12 ✓	—	—	—	—
✓	43	" " ~~Stud~~ KEEPER BOLT ✓	1 L ✓	" ✓	IN P.D. ✓	—	—	—	—	—
✓	✓ 44	" " Brass	2 ✓	" ✓	—	—	—	—	BRONZE 39-250 ~~39-250~~ EB-998 ✓	—
✓	45	" " Pin	392-A-5 PATT → ~~392-A-5 PATT~~ 2 ✓	393-K-2 ✓	CASTING ORD. IN P.D.	—	—	—	—	—
✓	46	" ~~Large Half~~ KEEPER BOLT LOCK WASHER ✓	2 ✓	393-K-2 ✓	—	—	—	—	—	—
	47	" Small "	2 ✓	" ✓	ORD. IN P.D. ✓	—	—	—	—	—
	48	" Strap Large Half	—							
	49	" " Small "	—							
	50	" " Liner	—							
	51									
	52									
	53									
	54									
	55									
	56	**GROUP 40—ENG. TRUCK, LEADING**								
	57	Engine Truck Arrangement								
	58	" " Frame								
	59	" " " Brace								
	60	" " " "								
	61	" " " Crosstie								

(Group 40 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 40—ENG. TRUCK LEADING (Cont.)								
	1	Engine Truck Pedestal								
	2	" " "								
	3	" " " " Cap								
	4	" " " " " Brace								
	5	" " Saddle								
	6	" " Equalizer (Over Box)								
	7	" " " " "								
	8	" " Bolster								
	9	" " Center Plate								
	10	" " " " Washer								
	11	" " " Pin								
	12	" " " " Bolt								
	13	" " " " " Key								
	14	" " Check Chain								
	15	" " " " Bolt								
	16	" " " " Clevis								
	17	" " Swing Frame								
	18	" " " Link								
	19	" " " " Pins								
	20	" " " " "								
	21	" " " Pin Key								
	22	" " " Rocker								
	23	" " Connecting Links								
	24	" " " " Pins								
	25	" " Spring Hanger								
	26	" " " "								
	27	" " " " Gib								
	28	" " " Seat								
	29	" " " "								
	30	" "								
	31	" " Safety Strap								
	32	" " Radius Bar								
	33	" " " " Brace								
	34	" " " " End								
	35	" " " " Pin								
	36	" "								
	37	" "								
	38									
	39									
	40									
	41									
	42									
	43									
	44	**GROUP 41—ENG. TRUCK TRAILING**								
	45	Trailing Truck Arrangement								
	46	" " Bolster								
	47	" " Center Plate								
	48	" " " " Washer								
	49	" " " Pin								
	50	" " " " " Bolt								
	51	" " " " " " Key								
	52	" " Equalizer (Over Box)								
	53	" " " " "								
	54	" " Frame								
	55	" " " Brace								
	56	" " " "								
	57	" " " Crosstie								
	58	" " Pedestal								
	59	" " " Cap								
	60	" " " " Brace								
	61	" " Saddle								

(Group 47 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 41—ENG. TRAILING TRUCK (Cont.)								
	1	Engine Truck Swing Frame								
	2	" " " Link								
	3	" " " " Pin								
	4	" " " " "								
	5	" " " Pin Key								
	6	" " Guide Frame								
	7	" " Spring Hanger								
	8	" " " "								
	9	" " " " Gib								
	10	" " " " "								
	11	" " " Seat								
	12	" " " "								
	13	" " " Yoke								
	14	" " " " Hinge								
	15	" " " " Seat								
	16	" " " " Pin								
	17	" " " " Case Cap								
	18	" " Chafing Plate								
	19	" " Safety Strap								
	20	" " Check Chain								
	21	" " " " Bolt								
	22	" " " " Clevis								
	23	" " Center Spring								
	24	" " " " Case								
	25	" " " " Rod								
	26	" " " " Seat								
	27	" " Radius Bar								
	28	" " " " Brace								
	29	" " " " Clamp								
	30	" " " " End								
	31	" " " " Pin								
	32	" " " " " Keeper								
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40	**GR. 42—ERECTING CARDS, Elevations**	—							
	41	Elevation	1	429-A-40	—	—	—	—	—	—
	42									
	43	Bachkead Arrangement	—							
	44	**GR. 43—ERECTING CARDS, Cross Sec.**	—							
	45	Cross Section	1	439-A-34	—	—	—	—	—	—
	46									
	47	**GROUP 44—EXHAUST PIPE**								
	48	Exhaust Pipe	1	443-A-2	—	—	44-263	—	—	—
	49	" Nozzle	—							
	50	" Tips BORE $5\frac{1}{2}$"	1	443-A-2	—	—	44-264	—	—	—
	51	" " BORE $5\frac{3}{4}$"	1	"	—	—	44-264	—	—	—
	52	" " BORE 6"	1	"	—	—	44-264	—	—	—
	53	Blower Ring	—							
	54	Exhaust Pipe Ball								
	55	" " Flange								
	56	" " Gland								
	57	" " Rings								
	58	" " Seat								
	59	" " Sleeve								
	60	" " Spring								
	61									

(Group 44 Continued

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 44—EXHAUST PIPE (Cont.)								
	1	Separate Exhaust Pipe	]							
	2	" " " Elbow								
	3	" " " Flange								
	4	" " " Support								
	5	" " " Joint Ring								
	6	" " " Casing	]							
	7									
	8									
	9									
	10									
	11	**GROUP 45—FIREDOOR & FIREBRICK**								
8	12	Fire Brick Arrangement	1-Set	454-A-57	—	—	—	—	—	—
0	13	Arch Tube	4	454-A-57	—	—	—	—	—	—
	14	" " Covers	—							
	15	" " Setting	—							
	16	" Box Cross Carrier	—							
	17									
	18									
	19									
8	20	Fire Door Arrangement	1	FRANKLIN No. 8 SHEET No. 12710-D ORD. IN P.D.			—	—	—	—
	21	" " Frame	]							
	22	" " Hinges								
	23	" " Liner								
	24	" " Latch								
	25	" " " Guide								
	26	" " Catch								
	27	" " Register								
	28	" " Handle								
	29	" " Lever								
	30	" " Shaft								
	31	" " Slide								
	32	" " Damper								
	33	" " " Details								
	34	" " Shield								
	35	" " " Support								
	36	" " " Angle	]							
	37									
	38									
	39	Smoke Consumer	—							
	40									
	41	**GROUP 46—FRAMES**								
0	42	Frame—Pattern & Slotting	1 R 1 L	466-A-7	—	—	—	—	HIGH CARBON 46-194 RH. 46-195 L.H.	—
0	43	" —Drilling		466-A-121	—	—	—	—	—	—
	44	"	—							
	45	" Cradle	—							
	46	" Rail	—							
	47	" Splice	—							
0	48	" Pedestal Binder No. 1	2	462-B-96	MATL. ORD IN P.O.	462-B-96	—	—	—	—
0	49	" " " No. 2	2	"	"	462-B-96	—	—	—	—
0	50	" " " No. 3 MAIN	2	462-A-96	"	462-A-96	—	—	—	—
0	51	" " " No. 4	2	462-B-96	"	462-B-96	—	—	—	—
	52	" " " No. 5	—							
	53	" " " Bolt	—							
	54	" " " "	—							
	55	"	—							
0	56	Pedestal Shoe—Main, FR. & INT.	12	462-D-71	—	—	—	—	BRONZE 46-200	—
0	57	" " BK.	4	462-A-71	—	—	—	—	BRONZE 46-201	—
0	58	" Wedge—Main, FR. INT. & BK.	8	462-A-72	—	46-A-6	—	—	—	—
	59	" "	—							
0	60	" " Bolt—Main, FR. INT. & BK.	8	462-A-72	FURNISH NUT & COTTER	—	—	—	—	—
	61	" " "	—							

(Group 46 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 46—FRAMES (Cont.)								
	1									
	2									
	3									
	4									
	5									
	6									
	7	**GROUP 47—FRAME DETAILS**								
	8	Frame Filling ~~From~~ BET. #1 & #2	1R 1L	472-A-32			—	47-110	—	—
	9	" " ~~Inc.~~ BET. #3 & #4	1R 1L	472-B-32			—	47-110	—	—
	10	" " ~~Back~~ EQUALIZER PINS	4	472-A-32	FURNISH DOWEL & SPLIT KEY	47-A-7	—	—	—	—
	11	" Wearing Plate (For Spr. Hanger)	6	466-A-121	—	47-B-5	—	—	—	—
	12	Foot Plate	1	473-E-8	—	—	—	47-107-D	—	—
	13	Front Deck Casting	1	472-C-342	—	—	—	47-465	—	—
	14	Center Pin Guide	—							
	15	Back Head Brace	—							
	16	Expansion "	—							
	17									
	18									
	19									
	20									
	21									
	22									
	23	Ash Pan Crosstie	—							
	24	Brace Crosstie	1	472-A-30	MATL. ORD. IN P.D.	—	—	—	—	—
	25	" "	—							
	26	Center Pin Crosstie	—							
	27	Cylinder "	—							
	28	Furnace "	1	473-A-9	—	—	—	47-108	—	—
	29	" "	—							
	30	Grate "	—							
	31	GUIDE YOKE "	1	472-A-31	—	—	—	47-109	—	—
	32	Pedestal "	1	472-B-5	—	—	—	47-111	—	—
	33	REV. SHAFT "	1	474-B-2	—	—	—	47-106	—	—
	34	" " " STOP.	4	"	—	—	—	—	—	—
	35	Radius Bar "	—							
	36	" " " Clamp	—							
	37	Waist Sheet "	—							
	38	" " "	—							
	39	" " "	—							
	40	" " - BACK	1	472-A-29	PLATE-MATL ORD. IN P.D.	—	—	—	—	—
	41	" "	—							
	42	" "	—							
	43									
	44	Furnace Bearer SHOE	2	473-A-9	—	—	—	47-112	—	—
	45	" " Brace	—							
	46	" " Clamp	2	473-A-9	PLATE-MATL. ORD. IN P.D.	47-A-8	—	—	—	—
	47	" " Filling	—							
	48	" " Knee	—							
	49	" " Link	—							
	50	" " Plate	2	473-A-9	BRASS PLATE MATL. ORD. IN P.D.	—	—	—	—	—
	51	" " Pad	—							
	52	" " "	—							
	53	" " Sheet—Front	—							
	54	" " " —Back	1	472-A-349	PLATE-MATL ORD. IN P.D.	—	—	—	—	—
	55									
	56									
	57									
	58									
	59									
	60									
	61									

(Group 47 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 47—FRAME DETAILS (Cont.)								
	1	Centering Device Arrangement								
	2	" " Body								
	3	" " Top Bearing								
	4	" " Shoe								
	5	" " Rod								
	6	" " " Stand								
	7	" " Spring Seat								
	8	" " Clamp								
	9	" " End Plates								
	10									
	11	Hinge Casting—L. P.								
	12	" " Bushing								
	13	" " Pin								
	14	" " " Keeper								
	15	" " —H. P.								
	16	" " Bushing								
	17	" " Pin								
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31	GR. 49—GAUGES, T'MPLATES & JIGS								
	32	STANDARD FIXTURES	1-SET	492B279						
	33	DRILLING JIGS	1-SET	492A280						
	34	FORGING TEMPLATES	1-SET	492A269						
	35	LAYOUT "	1-SET	492A270						
	36	GAUGES	1-SET	492A270						
	37									
	38									
	39									
	40									
	41									
	42									
	43	**GROUP 50—GUIDES**								
	44	Guide—Top	1R 1L	503-D-8	MATL. ORD. IN P.D.	50-A-6				
	45	" —Bottom	1R 1L	"	" "	50-A-6				
	46	" Liner - FRONT	4	"	FIN. SIZES 1" × 5 3/8" × 5 1/4"					
	47	" " - BACK	4	"	FIN. SIZES 1" × 5 1/2" × 8"					
	48	" Yoke	1	"	MATL. ORD. IN P.D.					
	49	" " Bracket								
	50	" " End	1R 1L	503-A-9 PATT. 503-D-8				50-205		
	51	" " "								
	52	" Filling								
	53	" Knee								
	54	" Block								
	55	" "								
	56	" Yoke Sheet	2	502-A-9	PLATE MATL. ORD. IN P.D.					
	57	" Cover								
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 51—GRATE ARRANGEMENTS								
	1	Grate Arrangement	1 SET	514-A-23	—	—	—	—	—	—
	2									
	3									
	4	**GROUP 52—GRATE DETAILS**								
	5	Grate Bar	8	522-A-689 ~~D-39126~~	—	—	52-209	—	—	—
	6	" "	12	" "	—	—	52-209-A	—	—	—
	7	" "	—							
	8	" "	—							
	9	Dead Grate - FRONT	2	522-A-610	—	—	52-1760	—	—	—
	10	" " - BACK	2	522-B-610	—	—	52-1761	—	—	—
	11	Grate Center Rail—~~Front~~	1	522-A-609	—	—	—	52-1759	—	—
	12	" " " ~~Back~~	—							
	13	" Side Rail—R. FR. & L. BK.	2	522-A-608	—	—	52-1757	—	—	—
	14	" " " —L. FR & R. BK	2	" "	—	—	52-1758	—	—	—
	15	" Drop Plate	—							
	16	" " "	—							
	17	" " " Arm	—							
	18	" " " Crank	—							
	19	" " " Handle	—							
	20	" " " Lever	—							
	21	" " " Lock Pin	—							
	22	" " " Rod	—							
	23	" " " Shaft	—							
	24	" " " Support	—							
	25	" Shaft	—							
	26	" ~~Bearing~~ SUPPORT (DEAD GRATE) FR.	4	522-F-612	—	52-A-39	—	—	—	—
	27	" ~~Bearing~~ (" ") BK	4	522-E-612	—	52-A-249	—	—	—	—
	28	" Support (& ASH PAN)	8	522-B-15	—	—	—	52-446-A	—	—
	29	" " (CENTER RAIL-BACK)	1	522-B-13	—	—	—	52-418	—	—
	30	" " (" " - FRONT)	1	522-B-49	—	—	—	52-1155	—	—
	31	" ~~Lock Pin~~ LEVER LATCH - FR.	2	522-A-48	—	—	—	—	—	EM-383
	32	" Lever ~~Catch~~ " - BK.	2	522-B-48	—	—	—	—	—	EM-384
	33	" " ~~Cover~~ " PIN	4	522-A-48	—	—	—	—	—	—
	34	" " ~~Rocking Bar Arm~~ FULCRUM	2	522-A-611	—	—	52-1762	—	—	—
	35	ROCKING Grate Bar Connection	8	522-D-612	FORGED SIZES 1" x 2½" x 39"	—	—	—	—	—
	36	" " " " - ROD	2	522-A-612	—	522-A-612	—	—	—	—
	37	" " " " - "	1R 1L	522-B-612	—	522-B-612	—	—	—	—
	38	" " " "	—							
	39	" " " "	—							
	40	" " Handle	—							
	41	" " Hanger	—							
	42	" " Lever—Hand	1	522-A-371	—	522-A-371	—	—	—	—
	43	" " " ~~Power~~	2	522-C-612	—	522-C-612	—	—	—	—
	44	" " "	2	522-L-612	—	522-L-612	—	—	—	—
	45	Grate Shaker Arrangement	—							
	46	" " Cylinder	—							
	47	" " " Support	—							
	48	" LEVER FULCRUM PINS	2	522-K-612	—	—	—	—	—	—
	49	" BAR CONN. PINS	28	522-J-612	—	—	—	—	—	—
	50									
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 53—HAND RAILS & STEPS								
P	1	Hand Rail	1 SET	SEE ERECT. CARD.	MATL. ORD. IN P.D.	—	—	—	—	—
	2	" " Balls	—							
P	3	" " Column (ON SMOKE BOX FRONT 4")	2	532-C-15	—	—	53-159	—	—	—
P	4	" " " (" " " " 4")	1	532-C-14	—	—	53-166	—	—	—
P	5	" " " (" " " — 4")	2	532-C-15	—	—	53-159	—	—	—
P	6	" " " (" " " — 8")	4	532-M-16	—	—	53-63	—	—	—
P	7	" " " (ON 1ST COURSE — 7")	2	532-J-14	—	—	53-184	—	—	—
P	8	" " " (ON DOME COURSE-F — 6")	2	532-G-14	—	—	53-2	—	—	—
P	9	" " " (" " " -B - 6½")	2	532-H-14	—	—	53-165	—	—	—
P	10	" " " (ON FIRE BOX - 6½")	2	532-H-15	—	—	53-150	—	—	—
P	11	" " " Washer (1ST COURSE) - 1¾"	2	532-C-11	—	—	53-208	—	—	—
P	12	" " " " (DOME COURSE-F) 2"	2	532-E-11	—	—	53-169	—	—	—
P	13	" " " " (" " -B) 3½"	2	532-G-41	—	—	53-205	—	—	—
P	14	" " " " (FIRE BOX) 2¼"	2	532-G-11	—	—	53-170	—	—	—
	15	" " "	—							
	16	" " "	—							
	17	Hand Rail Column Straps	—							
	18	" " " "	—							
	19	" " " "	—							
	20	" " " "	—							
P	21	" " COLUMN (ON FRONT BUMPER)	1	532-N-16	—	—	53-128	—	—	—
	22									
	23									
	24									
	25									
	26									
P	27	Handles ON CAB ROOF	2	532-A-23	—	532-A-23	—	—	—	—
	28	"								
	29	"								
	30	"								
P	31	Cab Handle	1R 1L	532-B-102	—	532-B-102	—	—	—	—
	32									
	33									
	34									
	35									
	36	Steps	—							
	37	Bell Step	—							
	38	" " Brace	—							
P	39	Bumper Step—Front	2	532-A-31 PATT. 532-B-36	—	—	53-193	—	—	—
P	40	" " Brace	1R 1L	"	—	53-A-18	—	—	—	—
	41	Bumper Step—Back	—							
	42	" " Brace	—							
	43	Cab Step	—							
	44	" " Brace	—							
	45	Cylinder Step	—							
	46	" " Bracket	—							
	47	Deck Step	—							
P	48	Dynoma Step	2	532-D-288	—	—	53-175	—	—	—
P	49	~~Engine Step~~ FILLER	2	532-A-289	—	—	53-179	—	—	—
	50	" " Brace	—							
	51	Guide Step	—							
P	52	Headlight Step ON SMOKE BOX FRONT	1	533-E-4	—	—	53-173	—	—	—
P	53	" " " " "	1	533-B-4	—	—	53-174-A	—	—	—
P	54	Pilot Step	1R 1L	532-A-164	X —	—	—	—	—	—
P	55	" " BRACE	2	"	X —	53-B-19	—	—	—	—
P	56	Running Board Step	2	532-A-37	—	—	53-202	—	—	—
	57	" " "	—							
	58	" " " Brace	—							
	59	" " " "	—							
P	60	PILOT STEP BRACE	2	532-A-164	—	53-A-220	—	—	—	—
P	61	" " "	2	" " "	BAR IRON ½" x 2" x 32¼"	—	—	—	—	—

(Group 53 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 53—HAND RAILS & STEPS (Cont.)								
	✓ 1	Sand Box Step	2 ✓	532-B-288 ✓	—	—	53-175 ✓	—	—	—
	✓ 2	" " " FILLER ✓	2 ✓	532-C-290 ✓	—	—	53-349 ✓	—	—	—
	3	" " "	—							
	4	Side Sheet "	—							
	5									
	6									
	7	**GR. 54—H'DLI'TS, Lamps, Plates, Etc.**								
	✓ 8	Signal Fixtures ~~Location~~ ON SMOKE BOX ✓	2 ✓	520-D-52 ✓	—	—	—	—	—	EM-468 ✓
	9	" ~~Lamp~~ CASE Bracket - IN CAB ✓	1 ✓	542-A-375 ✓	—	542-A-375 ✓	—	—	—	—
	10	" " " - " - ✓	1 ✓	542-B-375 ✓	—	542-B-375 ✓	—	—	—	—
	11	Flag Bracket ON BUMPER ✓	1R 1L ✓	542-A-46 ✓	—	—	54-101 ✓ RH. 54-94 ✓ L.H.	—	—	—
	12	" Socket	—							
	13	" Box	—							
	14	Lamp Bracket	—							
	15	" Socket	—							
	✓ 16	Headlight Shelf	1 ✓	542-A-374 ✓	—	—	54-440 ✓	—	—	—
	17	" " Edge	—							
	18	" " Bracket	—							
	✓ 19	" " Handle	1 ✓	542-A-374 ✓	FURNISH ✓ BOLT ✓	—	—	—	—	—
	20	Train Number Indicator								
	21	Lamp (Steam Gauge) A.M.PRO. ✓	1 ✓	542-A-287 ✓ VISOR 542-A-288 STYLE No. 1 ✓	ORD. IN P.D. ✓	—	—	—	—	—
	22	" Bracket	1 ✓	182-B-24 ✓	—	—	—	—	—	—
	23	" (Water Gauge) A.M.PRO ✓	2 ✓	542-A-287 ✓ VISOR 542-A-289 STYLE No. 1 ✓	ORD. IN P.D. ✓	—	—	—	—	—
	24	" Bracket RIGHT SIDE	1	542-A-416	—	542-A-416	—	—	—	—
		LEFT SIDE	1	542-B-416	—	542-B-416	—	—	—	—
	25	" (Air Gauge)	—							
	26	" Bracket	—							
	27	" Lubricator A.M.PRO. ✓	1 ✓	542-A-287 ✓ VISOR 542-A-289 STYLE No. 2 ✓	ORD. IN P.D. ✓	—	—	—	—	—
	28	" Bracket								
	29	" Engineer's	1	TO SUIT	—	TO SUIT	—	—	—	—
	30	" Bracket	—							
	31	" (Booster)	—							
	32	" Bracket	—							
	33	" (Pyrometer)	—							
	34	" Bracket	—							
	35	" (Feed Water Gauge)	—							
	36	" Bracket	—							
	37	Number Plate	—							
	38	" " Figures	—							
	✓ 39	Builder's Card	2 ✓	543-A-16 ✓	—	—	—	—	54-158 ✓	—
	40	Name Plate	—							
	✓ 41	Patent Plate—Superheater	1 ✓	542-A-330 ✓	—	—	—	—	54-178 ✓	—
	42	" "	—							
	✓ 43	Dynamo Bracket ~~HOLD~~ Released 5/17	1 ✓	~~542-A-12~~ 542-E-389 after 1089 ✓	PLATE-MATL: ~~54-A-3~~ ORD. IN P.D. ✓	~~542-A-12~~ 542-A-389 ✓	—	—	—	—
	✓ 44	Electric Wiring	1 ✓	543-A-50 ~~B~~ 51 ✓	MATL. ORD. ✓ IN P.D. ✓	—	—	—	—	—
	45	OWNERSHIP PLATE ENGS. 7077 To 7088 ONLY	2	542-A-378	—	—	—	—	54-444	—
	46	CONDUIT CLAMPS PAIRED ~~6 PAIR~~ 12		633-P-15	—	633-P-15	—	—	—	—
	47									
	48									
	49									
	50	VALVE HANDLE MARKER (POWER REV.) ✓	1 ✓	543-A-54 ✓	ALUMINUM ✓ PATT. 54-449 ✓	FURNISH WASHER 7/8" O.D. × 17/32" I.D. × 1/8" THICK	—	—	—	—
	51	" " " (WATER GAUGE) ✓	1 ✓	543-B-54 ✓	ALUMINUM PATT. 54-450 ✓	FURNISH WASHER 7/8" O.D. × 17/32" I.D. × 1/8" THICK	—	—	—	—
	52	" " " (BLOWER) ✓	1 ✓	543-A-55 ✓	ALUMINUM PATT. 54-451 ✓	FURNISH WASHER 7/8" O.D. × 17/32" I.D. × 1/8" THICK	—	—	—	—
	53	" " " (AIR PUMP) ✓	1 ✓	543-B-55 ✓	ALUMINUM PATT. 54-452 ✓	FURNISH WASHER 7/8" O.D. × 17/32" I.D. × 1/8" THICK	—	—	—	—
	54	" " " (DYNAMO) ✓	1 ✓	543-C-55 ✓	ALUMINUM PATT. 54-453 ✓	FURNISH WASHER 7/8" O.D. × 13/32" I.D. × 1/8" THICK	—	—	—	—
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 55—Injector & Feed Water								
D	1	Injector	1 R 1 L	NATHAN N-L SECL. A TYPE 1918	ORD. IN P.D.	—	—	—	—	—
D	2	" Bracket - R.H.	1	552-C-229	PLATE - MATL - ORD. IN P.D.	—	—	—	—	—
D	3	" Check	1 R 1 L	HANCOCK	ORD. IN P.D.	—	—	—	—	—
	4	" " Valve	—							
	5	" " Cap	—							
	6	" " Nut	—							
	7	" " Sleeve	—							
	8	" " Flange	—							
D	9	" ~~Baffle Plate~~ STARTING VALVES	1 R 1 L	NATHAN	ORD. IN P.D.	—	—	—	—	—
D	10	" Extension Handle	2 SETS	NATHAN	FURNISHED WITH INJECTORS	—	—	—	—	—
D	11	" " " Support	2 SETS	"	" "	—	—	—	—	—
D	12	" Universal Joint	2 SETS	"	" "	—	—	—	—	—
	13	" Pipe Connection	—							
	14	" " "	—							
	15	Delivery Pipe Coupling Nut	—							
	16	" " " Sleeve	—							
	17	" " " "	—							
D	18	INJECTOR BRKT. L.H.	1	552-B-229	PLATE - MATL - ORD. IN P.D.	—	—	—	—	—
D	19	Feed Hose (Future - Coride 6" longer)	2	3½" I.D. x 48" LONG	ORD. IN P.D.	—	—	—	—	—
	20	" "	—							
D	21	" " Clamp	2	CLANEY TO FIT 3½" I.D. HOSE	ORD. IN P.D.	—	—	—	—	—
D	22	" Pipe Hanger	2	552-B-233	—	552-B-233	—	—	—	—
D	23	Strainer	2	OKADEE 3x3½"	ORD. IN P.D.	—	—	—	—	—
	24	" Body	—							
	25	" Cap	—							
	26	" Nut	—							
	27	" Sleeve	—							
	28	" Swivel	—							
	29	" Coupling Nut	—							
	30	" " " Sleeve	—							
D	31	FEED PIPE HANGER BRACKET	2	552-A-7	—	—	—	—	—	EM-421
	32									
	33									
	34									
	35									
	36	Feed Water Heater	—							
	37	" " " Support	—							
	38	" " " Pump	—							
	39	" " " " Bracket	—							
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
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	61									

(Group 55 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 55—Injector & Feed Water (Cont).								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36	**GROUP 57—LAGGING & JACKET**								
✓	37	Lagging (Boiler)	1 SET ✓	572-A-9 ✓	MATL. ORD ✓ IN P.D. ✓	✓	—	—	—	—
✓	38	" Panel (REMOVABLE)	1 SET ✓	572-B-14 ✓	—	—	—	—	—	—
	39	" "	—							
	40	" "	—							
✓	41	" Angle Iron	1 ✓	—	MATL. ORD. ✓ IN P.D. ✓	✓ 57-A-1 ✓	—	—	—	—
	42	" " "	—							
✓	43	Jacket (Boiler)	1 SET	#22 BW.G. WELLSVILLE POLISHED	MATL. ORD. IN P.D. ✓	—	—	—	—	—
✓	44	" Band (IN CAB)	1 ✓	572-A-12 ✓	—	—	—	—	—	—
✓	45	" = HANDLE ✓	4 ✓	FLUSH-CHEST-HANDLES ✓	ORD. IN P.D. ✓	—	—	—	—	—
✓	46	" Clamp	62 ✓	~~A-11419~~ 573-A-4 ✓	—	~~A-11419~~ ✓	—	—	—	57-28
✓	47	" " (FIRE BOX) ✓	12 ✓	572-A-68 ✓	—	572-A-68 ✓	—	—	—	—
✓	48	Plug Casing (WASHOUT PLUGS) ✓	18 ✓	572-S-6 ✓	—	—	—	—	57-62 ✓	~~57-62~~ ✓
✓	49	" " (ARCH TUBE PLUGS) ✓	2 ✓	572-R-6 ✓	—	—	—	—	57-54	~~57-54~~ ✓
	50	" Cover	—							
✓	51	Cylinder Lagging	1 SET	USE BOILER SCRAP	MATL. ORD. IN P.D. ✓	—	—	—	—	—
✓	52	" Jacket	1 SET	#18 B.W.G. WELLSVILLE POLISHED	" " ✓	—	—	—	—	—
	53	Gauge Cock Casing	—							
	54	Boiler Test Plate Casing	—							
✓	55	WATER COLUMN EXTENTION CASING ✓	1 ✓	~~572-B-21~~ Cancell after 1089 ✓	—	—	—	—	57-55 ✓	—
✓	56	PLUG CASING (WASHOUT PLUGS)	2 ✓	572-V-6 ✓	—	—	—	—	57-101 ✓	—
✓	57	" " (ARCH TUBE PLUGS)	2 ✓	572-U-6 ✓	—	—	—	—	57-100 ✓	—
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
	1	Link								
	2	" Block								
	3	" " Bushings								
	4	" Cheeks								
	5	" Filling								
	6	" Plate								
	7	" Saddle								
	8	" " Pin								
	9	" " Bushings								
	10	" Support								
	11	" " Bushings								
	12	Motion Bearer Crosstie								
	13	" " Knee								
	14	Radius Rod—Front Section								
	15	" " —Rear "								
	16	" " Lifting Link								
	17	Combination Lever								
	18	" " Bushings								
	19	" " Pin								
	20	Union Link	1 R 1 L	582-B-19	MATL. ORD. IN P.D. FURNISH NUT, COTTER & DOWEL	58-A-22	—	—	—	—
	21	" " Pin	2	"		—	—	—	—	—
	22	" " Bushings	2	582-A-8 PATT 582-B-19	—	—	—	—	58-28	—
	23	Slide Block								
	24	" " Cap								
	25	" " Bottom								
	26	" " Trunnions								
	27	" " Liners								
	28									
	29									
	30	Transmission Bar								
	31	" " Hanger								
	32	" " Link								
	33	" " Pin								
	34	Baker Valve Gear Frame Drilling	1 SET	583-A-7	—	—	—	—	—	—
	35	" " " " Extension	—							
	36									
	37									
	38									
	39									
	40	**GROUP 59—Oil Cups & Lubricator**								
	41	Oil Cups	—							
	42	BEEL RINGER ~~Crosshead~~ Oil Cup	1	592-A-12	—	—	—	—	59-237	—
	43	" " " Cap	1	"	—	—	—	—	59-236	—
	44	" " " ~~Nut~~ VALVE	1	"	FURNISH NUT & WASHER	—	—	—	59-238	—
	45	" " " Stem	—							
	46									
	47	Eng. Truck Oil Cup	—							
	48	" " " " Cap	—							
	49	" " " " Nut	—							
	50	" " " " Stem	—							
	51									
	52	Ecc. Rod ~~Oil~~ GREASE Cup PLUG	2	592-B-7	PRIME ORD. IN P.D.	—	—	—	—	—
	53	" " " " Cap	—							
	54	" " " " Nut	—							
	55	" " " " Stem	—							
	56	FURNACE BEARER OIL CUP	2	592-A-29	—	—	—	—	59-255	—
	57	Guide Oil Cup	2	592-A-218	—	—	—	—	—	EM-149
	58	" " " Cap	2	"	—	—	—	—	59-370	—
	59	" " " ~~Nut~~ STEM WIRE	2	"	3/32" DIA. STEEL WIRE	—	—	—	—	—
	60	" " " Stem	2	"	STEEL	—	—	—	—	—
	61									

(Group 59 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 59—Oil Cups & Lubricator (Cont.)								
	1	Link Oil Cup	—							
	2	" " " Cap	—							
	3	" " " Nut	—							
	4	" " " Stem	—							
	5									
	6	Link Lifter Oil Cup	—							
	7	" " " " Cap	—							
	8	" " " " Nut	—							
	9	" " " " Stem	—							
	10									
	11	Radius Rod Oil Cup	—							
	12	" " " " Cap	—							
	13	" " " " Nut	—							
	14	" " " " Stem	—							
	15									
	16	Rockshaft Oil Cup	—							
	17	" " " Cap	—							
	18	" " " Nut	—							
	19	" " " Stem	—							
	20									
	21	Rev. Shaft Oil Cup	—							
P	22	" " " " Cap (IN BEARING CAP)	2	592-A-14	HEX STEEL	—	—	—	—	—
	23	" " " " Nut	—							
	24	" " " " Stem	—							
	25									
	26	Transmission Oil Cup	—							
	27	" " " Cap	—							
	28	" " " Nut	—							
	29	" " " Stem	—							
	30									
X P	31	Piston Rod Oil Cup	2	592-A-222	—	—	—	—	—	EM-148
X P	32	" " " " Cap	2	"	—	—	—	—	—	—
X P	33	" " " " ~~Nut~~ STEM WIRE	2	"	3/32 DIA. STEEL WIRE	—	—	—	59-370	—
X P	34	" " " " Stem	2	"	STEEL	—	—	—	—	—
	35									
X P	36	Valve Stem Oil Cup	2	592-A-222	—	—	—	—	—	EM-148
X P	37	" " " " Bracket	2	592-C-10	ORD. IN P.D.	—	—	—	—	—
X P	38	" " " " Cap	2	592-A-222	—	—	—	—	—	—
X P	39	" " " " ~~Nut~~ STEM WIRE	2	"	3/32 DIA. STEEL WIRE	—	—	—	59-370	—
X P	40	" " " " Stem	2	"	STEEL	—	—	—	—	—
	41									
P	42	Main Rod Grease Cup PLUG	2	593-A-20	PRIME ORD. IN P.D.	—	—	—	—	—
P	43	" " " " BUSH.	2	"	—	—	—	—	Make in shop	EM-89
	44	" " " " ~~Cap~~ STEM	—	—						
	45	" " " " Nut	—							
P	46	SIDE " " " ~~Stem~~ PLUG F. & B	4	593-C-18	PRIME ORD. IN P.D.	—	—	—	—	—
P	47	" " " " ~~Plug~~ BUSH " "	4	"	—	—	—	—	Make in shop	EM-87
P	48	" " " " STEM " "	4	"	HEX. STEEL					
P	49	Side Rod Grease Cup PLUG MAIN	2	593-A-18	PRIME ORD. IN P.D.	—	—	—	—	—
P	50	" " " " ~~Cap~~ BUSH - " "	2	"	—	—	—	—	Make in shop	EM-89
P	51	" " " " ~~Nut~~ STEM - " "	2	"	HEX. STEEL	—	—	—	—	—
P	52	" " " " ~~Stem~~ PLUG - INT	2	593-B-18	PRIME ORD. IN P.D.	—	—	—	—	—
P	53	" " " " ~~Plug~~ BUSH - "	2	"	—	—	—	—	Make in shop	EM-89
P	54	" " " " STEM - "	2	"	HEX. STEEL	—	—	—	—	—
	55	Trailer Truck Oil Cup	—							
	56	" " " " Cap	—							
	57									
	58	Throttle Lever Support Oil Cup	—							
	59	" " " " " Cap	—							
P	60	VALVE ROD OIL CUP CAP	2	592-B-14	HEX. STEEL	—	—	—	—	—
	61									

(Group 59 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 59—Oil Cups & Lubri. (Cont.)								
	1	Valve Rod Crosshead Guide Oil Cup	4	592-B-222	—	—	—	—	59-373	EM-148
	2	" " " " " " Cap	4	"	—	—	—	—	59-370	—
	3	" " " " " " ~~Stem Nut~~ WIRE	4	"	3/32" DIA. STEEL WIRE	—	—	—	—	—
	4	" " " " " " Stem	4	"	STEEL	—	—	—	—	—
	5	" " " " " " Plug	—							
	6	OIL CAN HOLDER ANGLE	1	593-N-1	MAT'L ORD. IN P.D.	59-A-8	—	—	—	—
	7	Oil Can Holder	1	593-N-1	PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
	8	" " " Support	1	"	—	59-A-6	—	—	—	—
	9	" " " "	1	"	—	59-B-6	—	—	—	—
	10	" " " "	1	"	—	59-C-6	—	—	—	—
	11	" " " EDGE	1	"	MATL. ORD. IN P.D.	59-A-5	—	—	—	—
	12	LUBRICATOR-HYDROSTATIC	1	DETROIT No. 0	ORD. IN P.D.	—	—	—	—	—
	13	" SUPPORT	1	592-A-349	—	592-A-349	—	—	—	—
	14	" " BRACE	—							
	15	Lubricator - MECHL. Lee C.O.	1	EDNA 4FEED 10 PINT	ORD. IN P.D.	—	—	—	—	—
	16	" ARRGT. " 1094	1	593-A-21	after 1089	—	—	—	—	—
	17	" Support " Foreusing	1	592-A-344	after 1089 PLATE-MATL. ORD. IN P.D.	—	—	—	—	—
	18	" " Brace " thus	1	593-A-21	—	59-A-90	—	—	—	—
	19	" DRIVE STUD " hereafter	1	592-B-340	FURNISH NUT, COTTER & WASHER	—	—	—	—	—
	20	~~Flange Lubricator~~ " " LINK	1	593-A-21	1/2" IRON PIPE LENGTH TO SUIT	—	—	—	—	—
	21	" " Support	—							
	22									
	23									
	24									
	25	Steam Chest Oil Plug	2	592-A-339	STEEL	—	—	—	—	—
	26									
	27	Bell Ringer Oil Cup	—							
	28	Radial Buffer Oil Cup	—							
	29									
	30									
	31	**GROUP 60—Oil Burning Attachments**								
	32	Oil Burning Arrangement								
	33	Oil Burner								
	34	" " Lip								
	35	" " Support								
	36	" Feed Quadrant								
	37	" Operating Nandle								
	38	" Heater								
	39	" " Ends								
	40	" " Nuts								
	41	" " Bushing								
	42	" " Sleeve								
	43	" " Casing								
	44	" " Support								
	45	" " "								
	46									
	47									
	48									
	49									
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	56	**GROUP 61—PAINTING**	—							
	57	Lettering	—							
	58	Numbering	—							
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS—Main and Side								
	1	Rods—Main								
	2	Front Stub								
	3	" " Strap								
	4	" " Key								
	5	" " Washer								
	6	" " Brass								
	7	" " "								
	8									
	9	Main Stub								
	10	" " Strap								
	11	" " Wedge								
	12	" " Filling								
	13	" " Brass								
	14	" " "								
	15	" " " Grooves								
	16									
	17									
	18									
	19									
	20	Rods—Side—Front								
	21	Front Stub								
	22	" " Strap								
	23	" " Key								
	24	" " Filling								
	25	" " Brass								
	26									
	27									
	28	Rods—Side—Int.								
	29	Inter. Stub								
	30	" " Strap								
	31	" " Key								
	32	" " Filling								
	33	" " Brass								
	34									
	35	Rods—Side—Main								
	36	Main Stub								
	37	" " Strap								
	38	" " Key								
	39	" " Filling								
	40	" " Brass								
	41									
	42	Rods—Side—Back								
	43	Back Stub								
	44	" " Strap								
	45	" " Key								
	46	" " Filling								
	47	" " Brass								
	48									
	49	Knuckle Pin								
	50	" " Bushing								
	51	" " Nut								
	52									
	53	Side Rod Grease Grooves								
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT								
	1	Pilot								
	2	" Band								
	3	" Bracket								
	4	" Bottom Plate								
	5	" Corner Iron								
	6	" Knee								
	7	" Strap								
	8	" Brace								
	9	" "								
	10									
	11	Rail Guard								
	12	" "								
	13	Snow Plow								
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 63—PIPE FITTINGS**								
8	22	Air ~~Gauge~~ BRAKE Fitting (COMPLETE)	3	WESTINGHOUSE Pc. No. 67001	ORD. IN P.D.					
8	23	" ~~"~~ " ~~Nut~~ (")	1	WESTINGHOUSE Pc. No. 67247	" " "					
8	24	" ~~"~~ " ~~Swivel~~ (")	2	WESTINGHOUSE Pc. No. 67003	" " "					
	25									
8	26	Air Pump Oil Fitting	1	632-A-26	STICK BRASS					
8	27	" " " " Nut	1	"	" "					
8	28	" " " " Swivel	1	"	" "					
	29	" " Elbow								
	30	Angle Valve Nut								
	31	" " Swivel								
	32									
	33	Angle Valve Nut								
	34	" " Swivel								
	35									
	36	Ash Pan Valve Nut								
	37	" " " Swivel								
	38									
8	39	Bell Ringer Fitting	2	632-D-26	STICK BRASS					
8	40	" " " Nut	2	"	" "					
8	41	" " " Swivel	2	"	" "					
	42									
	43	Booster Turret Valve Elbow	—							
	44									
	45									
	46	Blower Fitting	—							
	47	" " Cap	—							
	48	" " Plug	—							
	49	" " Nut	—							
	50	" " "	—							
	51	" " Sleeve	—							
	52	" " "	—							
	53	" " Washer	—							
	54	" " Handle	—							
	55	" Valve Nut	—							
	56	" " Swivel	—							
8	57	" Elbow	1	BARCO 632-A-18	ORD. IN P.D.					
	58	Blow-off Cock Nut	—							
	59	" " Swivel	—							
	60									
	61									

(Group 63 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
P	1	Coal Sprinkler Fitting	1	632-A-17						EM-439
	2	" " " Nut	—							
	3	" " " Swivel	—							
	4	" " " Nozzle	—							
	5	" " " Hose	—							
P	6	" " " " SUPPORT	1	632-A-24			63-71			
	7	Cyl. Oil Pipe Fitting	—							
	8	" " " " Nut	—							
	9	" " " " "	—							
	10	" " " " Swivel	—							
	11	" " " " "	—							
	12	" " " " Tee	—							
	13	" " " " " Nut	—							
	14	" " " " " Swivel	—							
	15	" " " Bracket	—							
P	16	GOVERNOR PIPE FITTING	1	632-A-92	STICK BRASS					
P	17	~~Drip Valve Nut~~ " " LOCK NUT	1	"	" "					
P	18	~~" Swivel~~ " " SWIVEL	2	632-B-92	BRAZING METAL					
P	19	" " " NUT	2	"	STICK BRASS					
	20	Dynamo Valve Nut	—							
	21	" " Swivel	—							
	22									
	23	Feed Cock Nut	—							
	24	" " Swivel	—							
	25	" "	—							
	26	Inj. Starting Valve Nut	—							
	27	" " " Swivel	—							
	28									
P	29	Lubricator Valve ~~Nut~~ FITTING (IN BACKHEAD)	1	632-A-16					63-134	
P	30	" ~~" Swivel~~ DRY PIPE SUPPORT	1	642-A-4	TO SUIT					
	31									
	32	Oil Cock Nut	—							
	33	" " Swivel	—							
	34									
P	35	St. Gauge Cock ~~Nut~~ COMPRESSION COUPLING	1	632-B-28	ORD. IN P.D.					
	36	" " " Swivel	—							
	37									
P	38	Sander ~~Valve Nut~~ PIPE COMPRESSION COUPLING	2	632-A-28	ORD. IN P.D.					
P	39	" " ~~Swivel~~ " "	2	632-B-28	" " "					
	40									
P	41	~~Water Gauge Valve Nut~~ SUPERHEATER DAMPER PIPE UNION NUT	2	632-A-5	STICK BRASS					
P	42	~~" " " Swivel~~ " " SWIVEL	2	"	BRAZING METAL					
P	43	" " " FITTING	1	632-~~A~~ HA-4	STICK BRASS					
P	44	" " " "	1	632-A-71	" "					
	45	Check Pipe Union	—							
	46	" " " Nut	—							
	47	" " " Swivel	—							
	48									
	49	Feed Pipe Union	—							
	50	" " " Nut	—							
	51	" " " Swivel	—							
	52									
	53	Inj. Steam Pipe Union	—							
	54	" " " " Nut	—							
	55	" " " " Swivel	—							
	56									
	57	Oil Pipe Union	—							
	58	" " " Nut	—							
	59	" " " Swivel	—							
P	60	Manifold ~~and Bracket~~ SUPPORT	1	553-C-3	PLATE-MATL ORD. IN P.D.		55-A-16			
P	61	" BRACKET	1	552-A-22	" " "		552-A-22			

(Group 63 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—Pipe Fittings (Cont.)								
	1	Pipe Union								
	2	" " Nut								
	3	" " Swivel								
	4	" Pads								
	5	" "								
	6	" "								
	7	" "								
	8	" "								
	9	" "								
	10	" "								
	11	" Flanges								
	12	" "								
	13	" "								
	14	" "								
	15	" "								
	16	" "								
	17	" "								
	18	" "								
	19	" "								
	20	" "								
	21	" "								
	22	CAB FRONT PIPE FLANGE { AIR PUMP OIL LINE	2 HALVES	632-E-400	½" O.D. COPPER PIPE				63-740	
	23	" " " " { POWER REVERSE LINE-AIR	2 HALVES	632-B-400	½" IRON PIPE				63-600	
	24	" " " " { TOP WATER GLASS LINE	2 HALVES	632-B-400	⅝" O.D. COPPER				63-600	
	25	" " " " { POWER REVERSE LINE-STEAM	2 HALVES	633-B-8	¾" IRON PIPE				63-171	
	26	" " " " { COAL SPRINKLER STEAM LINE	2 HALVES	633-B-8	¾" IRON PIPE				63-171	
	27	" " " " { WATER COLUMN STEAM LINE	2 HALVES	633-N-8	1½" O.D. COPPER PIPE				63-716	
	28									
	29									
	30	POWER REVERSE PIPE COUPLING	2	632-C-3	¾" IRON PIPE TO 1" O.D. COPPER PIPE				STICK BRASS	
	31	" " " " NUT	2	" " "					" "	
	32	" " " " TAIL PIECE	2	" " "					BRAZING METAL	
	33									
	34	SPRINKLER PIPE COUPLING	~~2~~ 4 after 1089	632-D-3	1½" IRON PIPE TO ¾" O.D. COPPER PIPE				STICK BRASS	
	35	" " " NUT	~~2~~ 4	" " "					" "	
	36	" " " TAIL PIECE	~~2~~ 4	" " "					BRAZING METAL	
	37									
	38	CAB HEATER PIPE COUPLING STUD	4	632-A-541					STICK BRASS	
	39	" " " " NUT	4	" " "					" "	
	40	" " " " SLEEVE	4	" " "					" "	
	41	" " " "	2	632-B-544					BRAZING METAL	
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52	Pipe Clamp - SANDER FRONT	1R 1L	643-D-43 ~~To 5017~~		632-A-545				
	53	" " CAP " " "	2	" "		632-C-545				
	54	" " " " BACK	1R 1L	643-E-43		632 ~~B-545~~ A-559 after 1089				
	55	" " CAP " " "	2	" "		632-C-545				
	56	" " " INJ. OVERFLOW	2	643-~~A~~ B after 1089-5		63-A-156				
	57	" " " " "	2	" "		63-B-156				
	58	" " " " "	2	" "		63-B-61				
	59	" " CAP " "	2	" "		63-B-62				
	60	" " " " "	2	" "		63-A-155				
	61	" " CAP " "	2	" "		63-B-60				

(Group 63 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—Pipe Fittings (Cont.)								
✓	1	PIPE CLAMP - AIR RES. EQUALIZING	2	632-A-33	—	—	63-94	—	—	—
✓	2	" " CAP " " "	2	632-A-273	—	—	63-110	—	—	—
✓	3	PIPE CLAMP - INJ. DELIVERY	4	632-B-22	—	—	63-138	—	—	—
✓	4	" " CAP " " "	4	"	—	—	63-139	—	—	—
✓	5	PIPE CLAMP " "	2	632-R-22	—	—	63-138	—	—	—
✓	6	" " CAP " "	2	"	—	—	63-139	—	—	—
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 64—Piping Arrangements								
	1	Engine Piping Arrangement, R. S.	—							
	2	" " " L. S.	—							
	3	" " " Sections	—							
P	4	Piping Arrangement Engine & Tender	1	644-A-40	—	—	—	—	—	—
	5	Brake Governor Piping	—							
	6	ASH PAN ~~Blower~~ Piping	—							
	7	Booster "	—							
	8	Cylinder Cock Piping	—							
	9	Dead Engine Fixture Piping	—							
	10	Feed Water Heater Piping	—							
	11	Flange Oiler Piping	—							
P	12	Front End Brake Piping	1 SET	642-A-18	—	—	—	—	—	—
	13	Governor Drain "	—							
P	14	INJECTOR OVERFLOW PIPING ~~Lubricator~~	1 SET	643-~~A~~B-5 after 1089	—	—	—	—	—	—
P	15	CAB ~~Oil~~ Heater "	1 SET	642-A-61	—	—	—	—	—	—
P	16	Power Reverse "	1 SET	642-A-54	—	—	—	—	—	—
P	17	Sander Piping - FRONT	1 SET	643-D-43	—	—	—	—	—	—
P	18	FLEXIBLE JOINTS ~~Steam Gauge Piping~~ - STRAIGHT AIR	1 SET	642-B-2 BARCO	ORD. IN P.D.	—	—	—	—	—
P	19	~~" Heat "~~ - TRAIN LINE	1 SET	642-C-2 BARCO	" " "	—	—	—	—	—
P	20	SANDER ~~Stoker~~ PIPING - BACK	1 SET	643-E-43	—	—	—	—	—	—
	21	Smoke Consumer "	—							
P	22	FIRE HOSE ~~Water Gauge~~ - REEL APPLICATION	1 SET	642-A-130	—	—	—	—	—	—
P	23	FIRE HOSE ARRGT	1	~~560-D-157~~ 632-A-589	COCKS & V ORD. IN P.D	—	—	—	—	—
P	24	" " NOZZLE	1	~~560-D-456~~ 922-A-214	CASTING ORD. IN P.D.	—	—	—	—	EM-302
P	25	" " " CONNECTION	1	642-A-132	—	—	—	—	64-28	—
P	26	" " " " GASKET	1	"	RUBBER 2 3/16" DIA. x 1/8" THICK	—	—	—	—	—
P	27	" " CONNECTION	1	~~560-D-161~~ 642-A-136	—	—	—	—	63-374	—
P	28	" " " NUT	1	"	—	—	—	—	63-376	—
P	29	" " " SLEEVE	1	"	—	—	—	—	63-~~375~~ 811	—
P	30	" " REEL	1	642-A-129	FURNISH BOLT, WASHERS, NUTS, ETC. WOOD.	—	—	—	—	—
P	31	" " " BRACKET	2	"	—	64-A-31	—	—	—	—
P	32	DAMPER CYL. PIPING	1 SET	643-B-16	—	—	—	—	—	—
P	33	LUBRICATOR DRY PIPE PIPING	1 SET	642-A-4	—	—	—	—	—	—
P	34	INJECTOR TELL-TALE ARRGT.	1 SET	642-A-75	—	—	—	—	—	—
	35	**GROUP 65—PISTON & ROD**								
P	36	Piston	2	652-A-12 ORDERING 653-D-7	ROLLED STEEL ORD. IN P.D	—	—	—	—	—
	37	" Follower	—							
P	38	" Bull Ring	2	652-A-13 PATT. 653-D-7	CASTING ORD. IN P.D.	—	H.S. GUN IRON 65-366	—	—	—
	39	" Tee Ring	—							
P	40	" Snap Ring	4	653-D-7	CASTING ORD. IN P.D.	—	GUN IRON H.S.-2600	—	—	—
	41	" Plug	—							
P	42	" Rod	2	653-D-7	MATL. ORD IN P.D.	65-A-4	—	—	—	—
P	43	" " ~~Extension~~ NUT	2	"	FIN. SIZES 3" 6 1" HEX. x 2 1/4 THICK	—	—	—	—	—
	44	" " " Guide	—							
	45	" " " Cover	—							
	46	" " Slide Back	—							
	47	" Spring	—							
	48									
	49									
	50									
P	51	Piston Rod Packing	2 SETS	KING TYPE 652-B-3	ORD. IN P.D.	—	—	—	—	—
	52	" " " Gland								
	53	" " " Babbit Ring								
	54	" " " " "								
	55	" " " Split Ring								
	56	" " " Spring								
	57	" " " " Case								
	58	" " " Swab Cup								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS								
	1	Plugs	—							
	2	Arch Tube Plugs	8	662-A-45	—	—	—	—	66-188	—
	3	" " "	—							
	4	Cylinder Bushing Plug	4	662-A-5	—	—	66-94	—	—	—
	5	Ecc. Strap Plug	—							
	6	Filling "	—							
	7	Fusible "	—							
	8	Indicator "	4	662-B-62	—	—	—	—	66-51	—
	9	Peep Hole "	4	662-A-3	—	—	—	—	66-93	—
	10	Mud Drum "	—							
	11	Smoke Box "	—							
	12	Test "	1	662-A-30	—	—	—	—	66-171	—
	13	Waist "	—							
	14	" "	—							
	15	" " Flange	—							
	16	" " "	—							
	17	Washout "	27	662 B 46	—	—	—	—	66-189	—
	18	" "	—							
	19	Hand Hole "	—							
	20	VALVE CHAMBER BUSH PLUG	4	662-B-18	STICK BRASS	—	—	—	—	—
	21	Pyrometer Plug	1	662-A-38	—	—	—	—	66-77	—
	22	CAB TURRET PLUG 2"	3	662-A-8	~~STICK BRASS~~	—	—	—	66-~~111~~	—
	23									
	24									
	25	**GROUP 68—REVERSE LEVER**								
	26	Reverse Lever	1	ALCO TYPE "E" STYLE NO 1	ORD. IN P.D.	—	—	—	—	—
	27	" " Handle	—							
	28	" " Latch	—							
	29	" " " Guide	—							
	30	" " " Rod	—							
	31	" " Quadrant	—							
	32	" " " Support Released 4/30 ~~Held 11/28~~	1	682-B-163	PLATE-MATL. ORD. IN P.D.	682-B-163	—	—	—	—
	33	" " " Block	—							
	34	" " Arm	—							
	35	" " Fulcrum	—							
	36	" " Foot Rest	—							
	37	" " Floor Cover	—							
	38	" " Latch Spring	—							
	39									
	40									
	41	Power Reverse	1	ALCO TYPE "E" FIG. 2	ORD. IN P.D.	—	—	—	—	—
	42	" " Cylinder Support	1	683-B-34	—	—	—	68-153	—	—
	43	" " " " Brace	—							
	44	" " Screw Support	—							
	45	" " " " Filler Block	—							
	46	Screw Reverse	—							
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54	**GROUP 69—REVERSE SHAFT**								
	55	Reverse Shaft	1	692-E-25	MATL. ORD. IN P.D.	—	—	—	—	—
	56	" " Arm R.S.	1	692-B-21 PATT. 692-E-25	—	—	—	—	69-514	—
	57	" " " L.S.	1	692-A-20 PATT. 692-E-25	—	—	—	—	69-341	—
	58	" " " STOP	2	692-A-78	—	—	—	—	69-342	—
	59	" " " Counterbalance	1	692-C-108	—	—	—	—	69-283	—
	60	" " Bearing	2	692-B-28	—	—	69-350	—	—	—
	61	" " " STOP ADJUSTMENT		692-D-100	—	—	—	—	—	—

(Group 69 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 69—Reverse Shaft (Cont.)								
P	✓1	Reverse Shaft Bearing Cap	2✓	692-B-28✓	——	——	69-349✓	——	——	——
	2	" " " "	—							
P	✓3	" " Counterbal. Rod	1✓	692-J-24✓	——	69-A-6✓	——	——	——	——
P	✓4	" " " Spring	2✓	692-A-22✓	ORD. IN P.D.✓	——	——	——	——	——
P	✓5	" " " " Seat	1✓	692-J-24✓	——	——	69-202✓	——	——	——
P	✓6	" " " " Washer	1✓	" ✓	——	——	69-202✓	——	——	——
P	✓7	" " " " Casing	1✓	692-A-23✓ PATT. 692-J-24✓	——	——	69-231-A✓	——	——	——
	8	" " " Support	—							
	9									
	10									
O P	✓11	Reach Rod (VALVE GEAR)✓	1R✓ 1L✓	692-B-30✓	——	69-A-13✓	——	——	——	——
O P	✓12	" " (REV. CYL. TO REV. SHAFT ARM)✓	1✓	692-B-227✓	——	69-B-66✓	——	——	——	——
O P	✓13	" " (REV. CYL. TO CAB)✓	1✓	692-C-140✓	PIPE-MATL.✓ ORD. IN P.D.✓	——	——	——	——	——
	14	" "	—							
	15	" " Jaws	—							
	16	" " "	—							
	17	" " Guide	—							
	18	" " " Bracket	—							
P	✓19	" " Pin (VALVE GEAR)✓	2✓	692-B-30✓	FURNISH NUTS✓ COTTERS & DOWELS✓	——	——	——	——	——
P	✓20	" " "(REV. CYL. TO REV. SHAFT ARM)✓	1✓	692-B-227✓	FURNISH NUT✓ COTTER & DOWEL✓	——	——	——	——	——
P	✓21	" " GUIDE✓	1✓	692-A-228✓	FORGED SIZES✓ ½" x 2" x 10"✓	——	——	——	——	——
P	✓22	" " " CAP✓	1✓	" ✓	——	69-A-65✓	——	——	——	——
	23									
	24									
	25									
	26	**GROUP 70—ROCKER AND BOX**								
	27	Rocker								
	28	" Arm								
	29	" Box								
	30	" " Cap								
	31	" Pin								
	32									
	33									
	34									
	35									
	36	**GROUP 71—RUNNING BOARD**								
P	37	Running Board	1 SET	716-A-26	PLATE-MATL. ORD. IN P.D.	——	——	——	——	——
P	38	" " EDGE	1 SET	"	MATL. ORD. IN P.D.	——	——	——	——	——
	39									
	40									
	41	" " Edge	—							
	42	" " "	—							
	43	" " "	—							
	44	" " "	—							
	45	" " "	—							
	46	" " "	—							
	47	" " "	—							
	48	" " "	—							
P	49	" " Bracket SMOKE BOX-F✓	2✓	712-B-157✓	——	712-B-157✓	——	——	——	——
P	50	" " " " " -B✓	2✓	712-A-157✓	——	712-A-157✓	——	——	——	——
P	51	" " " " "✓ —	2✓	712-C-157✓	——	712-C-157✓	——	——	——	——
P	52	" " " DOME COURSE✓	4✓	712-D-157✓	——	712-D-157✓	——	——	——	——
P	53	" " " FIREBOX✓	2✓	712-B-156✓	——	712-B-156✓	——	——	——	——
P	54	" " " UNDER CAB✓	2✓	712-A-156✓	——	712-A-156✓	——	——	——	——
	55	" " "	—							
	56	" " "	—							
	57	" " "	—							
	58	" " "	—							
	59	" " Filler Blocks	—							
	60	" " " "	—							
	61	" " " "	—							

(Group 71 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 71—Running Board (Cont.)								
	1	Running Board Angle Supports - RES. SUPPORTS	2	712-C-156	MATL. ORD. IN P.D.	—	—	—	—	—
	2	" " " " - " "	2	712-D-156	" "	—	—	—	—	—
	3	" " " " - CAB FRONT	IR IL	712-A-158	" "	—	—	—	—	—
	4	" " " "	—							
	5	" " " "	—							
	6	" " " "	—							
	7	Side Sheet	IR IL	712-A-17	PLATE-MATL ORD IN P.D.	—	—	—	—	—
	8	" " Angle	1 SET	"	MATL. ORD. IN P.D.	—	—	—	—	—
	9									
	10									
	11									
	12									
	13									
	14									
	15	**GROUP 72—RODS—Main & Side**								
	16	Rods—Main	IR IL	723-A-82	MATL. ORD. IN P.D.	72-A-379	—	—	—	—
	17	Front Stub		"	—	—	—	—	—	—
	18	" " ~~Strap~~ WEDGE	IR IL	"	FIN. SIZES $2\frac{1}{2}$" x $3\frac{1}{16}$" x $4\frac{7}{16}$"	FURNISH DOWEL	—	—	—	—
	19	" " Key	2	"	FURNISH NUTS & COTTER	72-B-11	—	—	—	—
	20	" " Washer	2	"	FIN. SIZES 3" DIA. x $\frac{3}{4}$" THICK	—	—	—	{72-145 BRONZE EB-457	—
	21	" " Brass	4	722-C-4 PATT. 723-A-82	CASTING ORD. IN P.D.	—	—	—		—
	22	" " " LINER	2	"	FIN. SIZES $\frac{5}{8}$" x 4" x $4\frac{7}{16}$"	—	—	—	—	—
	23									
	24	Main Stub		723-A-82	—	—	—	—	—	—
	25	" " Strap	—							
	26	" " Wedge	2	723-A-82	FURNISH HARD BRONZE PLUG	72-A-381	—	—	—	—
	27	" " Filling	2	"	FIN. SIZES $2\frac{1}{2}$" x $5\frac{1}{2}$" x $9\frac{1}{8}$"	—	—	—	{72-645 BRONZE EB-453	—
	28	" " Brass - FRONT HALF	IR IL	722-B-213	CASTING ORD. IN P.D.	—	—	—		—
	29	" " " - BACK HALF	IR IL	722-A-213	" "	—	—	—	{BRONZE EB-454	—
	30	" " " Grooves	1 SET	723-A-82	—	—	—	—	{72-644	—
	31	" " " LINER	2	723-A-82	FIN. SIZES $\frac{1}{4}$" x $5\frac{1}{2}$" x 8"	—	—	—	—	—
	32									
	33	ROD MARKING - MAIN & SIDE	1 SET	~~160-D-116~~ 992-A-228	—	—	—	—	—	—
	34									
	35	Rods—Side—Front	IR IL	726-A-39	MATL. ORD. IN P.D.	72-A-33	—	—	—	—
	36	Front Stub		"	—	—	—	—	—	—
	37	" " ~~Strap~~ KEEPER BOLT	2	"	STEEL	—	—	—	—	—
	38	" " ~~Key~~ " " LOCK WASHER	2	"	ORD. IN P.D.	—	—	—	—	—
	39	" " Filling	—							
	40	" " Brass	2	722-A-25 PATT. 726-A-39	CASTING ORD. IN P.D.	—	—	—	{72-246 BRONZE EB-592	—
	41									
	42									
	43	Rods—Side—Int.	IR IL	726-A-39	MATL. ORD. IN P.D.	72-B-32	—	—	—	—
	44	Inter. Stub		"	—	—	—	—	—	—
	45	" " ~~Strap~~ KEEPER BOLT	2	"	STEEL	—	—	—	—	—
	46	" " ~~Key~~ " " LOCK WASHER	2	"	ORD. IN P.D.	—	—	—	—	—
	47	" " Filling	—							
	48	" " Brass	2	722-B-25 PATT 726-A-39	CASTING ORD. IN P.D.	—	—	—	{72-333 BRONZE EB-~~591~~ 593	—
	49									
	50	Rods—Side—Main	—							
	51	Main Stub		726-A-39	—	—	—	—	—	—
	52	" " ~~Strap~~ KEEPER BOLT	2	"	STEEL	—	—	—	—	—
	53	" " ~~Key~~ " " LOCK WASHER	2	"	ORD. IN P.D.	—	—	—	—	—
	54	" " Filling	—							
	55	" " Brass	2	722-A-24 726-A-39	CASTING ORD. IN P.D.	—	—	—	{72-245 BRONZE EB-594	—
	56									
	57									
	58									
	59									
	60									
	61									

(Group 72 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—Rods—Main & Side (Cont.)								
	1	Rods—Side—Back	1R 1L	726-A-39	MATL. ORD. IN P.D.	72-A-33				
	2	Back Stub		"						
	3	" " ~~KEEPER~~ ~~Strap~~ BOLT	2	"	STEEL					
	4	" " ~~Key~~ " " LOCK WASHER	2	"	ORD. IN P.D.					
	5	" " Filling	—							
	6	" " Brass	2	722-A-25 PATT. 726-A-39	CASTING ORD. IN P.D.				72-246 BRONZE EB-592	
	7									
	8	Knuckle Pin	4	722-A-212	MATL. ORD. IN P.D.	722-A-212				
	9	" " Bushing	4	722-B-5 PATT. 726-A-39					72-248	
	10	" " Nut	4	722-A-212	FIN. SIZES 5" HEX. K 1 3/4" THICK					
	11	" " WASHERS	4	"	FIN. SIZES 8" DIA. × 1/4" THICK					
	12	Side Rod Grease Grooves								
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 73—SAND BOX**								
	22	Sand Box—Front	1	733-A-70	PLATE-MATL. ORD. IN P.D.					
	23	" " —Back	1	733-B-70	" " "					
	24	Sand Box Base—Front	—							
	25	" " " —Back	—							
	26	" "	—							
	27	" " Top	—							
	28	" " Lid	4	732-A-7			73-73			
	29	" " ~~Valve~~ RING	4	732-A-2						EM-398
	30	" " VALVE Seat	2R 2L	732-A-118				73-379-RH 73-379-ALH		
	31	" " Arm	—							
	32	" " Rod	—							
	33	" " Shaft	—							
	34	" " Lever	—							
	35	" " ~~Rod~~ Handle	4	732-C-43		73-H-4				
	36	" " Bracket	—							
	37	Air Sander	2 SETS	VILOCO TYPE FL-302	ORD. IN P.D.					
	38	SAND BOX WASHERS - FRONT 1 3/4"	2	532-C-11			53-208			
	39	" " " - " 2 1/8"	2	532-F-11			53-400			
	40	" " " - " 1 7/8"	2	532-D-11			53-168			
	41	" " " - " 2"	2	532-E-11			53-169			
	42	" " " -BACK- 3 1/2"	2	532-G-41			53-205			
	43	" " " " 2 5/8"	2	532-K-11			53-259			
	44	" " " " 3"	2	532-N-11			53-243			
	45	" " " " 2 3/4"	2	532-L-11			53-401			
	46									
	47									
	48	**GROUP 75—SMOKE BOX**								
	49	Smoke Box Arrangement	1	817-F-9						
	50	Deflecting Plate	1 SET	753-A-119	PLATE-MATL. ORD. IN P.D.					
	51	" " Angle	1	817-F-9	MATL. ORD. IN P.D.	75-C-18				
	52	" " Handle	6	752-A-79	FURNISH NUTS & WASHERS	75-A-139				
	53	" " Nuts	—							
	54	" " ANGLE - BOTTOM	1 SET	817-F-9	MATL. ORD. IN P.D.					
	55	" " CLAMPS	8	812-B-51	FORGED SIZES 3" × 2 1/4" × 4"					
	56	" " STUDS	25	812-A-51	FURNISH WASHER & KEY					
	57									
	58									
	59									
	60									
	61									

(Group 75 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX (Cont)								
	1	Smoke Box Netting	1 SET	817-F-9	MATL. ORD. IN P.D.	—	—	—	—	—
	2	" " " Door	1	"	—	320-S-350	—	—	—	—
	3	" " " Frame	1	"	—	320-S-350	—	—	—	—
	4	" " " " Catch	—							
	5	" " " ANGLE	1	817-F-9	MATL. ORD. IN P.D.	75-A-185	—	—	—	—
	6	" " " " - BOTTOM	1	"	" "	75-D-19	—	—	—	—
	7	" " " FASTENING	1 SET	753-B-7	—	—	—	—	—	—
	8	" " " STUDS	18	"	FURNISH NUT & KEY	—	—	—	—	—
	9	" " FRAME TO NETTING FASTENING	1 SET	"	—	—	—	—	—	—
	10	" " NETTING ANGLE LINERS	1 SET	817-F-9	¼" X 1½" X LENGTH TO SUIT. BENT SAME AS SMOKE BOX NETTING ANGLE.		—	—	—	—
	11	Draft Pipe	—							
	12	" " Hanger	—							
	13	" " "	—							
	14	Tee Head Brace	—							
	15	Table Plate	1	753-A-119	PLATE - MATL. ORD. IN P.D.	—	—	—	—	—
	16	" " ANGLE	1	817-F-9	MATL. ORD. IN P.D.	75-A-179	—	—	—	—
	17									
	18									
	19	Cinder Pocket	—							
	20	" " Cap	—							
	21	" " Clamp	—							
	22	" " Thumb Screw	—							
	23	" " Chute	—							
	24	" " " Bracket	—							
	25	" " Slide	—							
	26	" " " Guide	—							
	27	" " Wedge	—							
	28	Cleaning Hole Frame	2	752-A-6	—	—	75-224	—	—	—
	29	" " Cap	2	"	—	—	75-223	—	—	—
	30	" " ~~Handle~~ EYE BOLT	2	"	FURNISH CHAIN	320-S-06	—	—	—	—
	31									
	32									
	33									
	34									
	35									
	36									
	37	Smoke Box Brace	—							
	38	" " " Foot	—							
	39	" " " Pad	—							
	40									
	41	Smoke Box Front	1	753-B-117	PLATE - MATL. ORD. IN P.D.	—	—	—	—	—
	42	" " " Door	1	"	" " "	—	—	—	—	—
	43	" " " Liner	—							
	44	" " " Hinges TOP	1	752-B-60	—	—	—	75-379	—	—
	45	" " " " BOTTOM	1	"	—	—	—	75-380	—	—
	46	" " " Lugs TOP	1	752-A-60	—	—	—	—	—	75-373
	47	" " " " BOTTOM	1	"	—	—	—	—	—	75-374
	48	" " " Buttons	17	752-A-9	—	—	75-383	—	—	—
	49	" " " ~~Handle~~ "	3	752-B-9	—	—	75-383	—	—	—
	50	" " " Clamp	—							
	51	" " " Crosstie	—							
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

(Group 75 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX (Cont.)								
P	✓1	Smoke Stack	1✓	754-S-2✓	—	—	75-375-F✓	—	—	—
	2	" " Base	—							
	3	" "	—							
P	✓4	" " Extension	1✓	754-S-2✓	—	—	75-376✓	—	—	—
	5	" " Top	—							
	6	" " Cone	—							
	7	" " Spark Whirl	—							
	8	" " Netting	—							
	9	" " Cleaning Hole	—							
	10	" " " " Cap	—							
	11									
	12									
	13									
	14	**GROUP 76—SPRINGS**								
	15	Springs	—							
P	✓16	Driving Spring—Front	2✓	762-A-14✓	ORD. IN P.D.✓	—	—	—	—	—
P	✓17	" " —Int.	2✓	" ✓	" " " ✓	—	—	—	—	—
P	✓18	" " —Main	2✓	" ✓	" " " ✓	—	—	—	—	—
P	✓19	" " —Back	2✓	762-B-14✓	" " " ✓	—	—	—	—	—
	20	" "	—							
	21	" "	—							
	22	Engine Truck Spring	—							
	23	" " "	—							
	24	Trailer Spring	—							
	25	Draft "	—							
	26	Coupler "	—							
	27	Buffer "	—							
	28	Centering "	—							
	29									
	30									
	31									
	32	**GROUP 77—SPRING RIGGING**								
P	✓33	Spring Rigging	1SET✓	776-F-7✓	FURNISH BOSHINGS✓ DOWELS, KEYS ETC.✓	—	—	—	—	—
P	✓34	Driving Box Saddle	6✓	772-A-16✓	—	—	—	77-87✓	—	—
	35	" " "	—							
P	36	Equalizer—Front - CROSS✓	1✓	776-F-7✓	MATL. ORD. IN P.D.✓	77-A-11✓	—	—	—	—
P	37	" —Side - FRONT✓	2✓	" ✓	" " ✓	77-A-58✓	—	—	—	—
P	38	" ~~—Back~~ - BACK✓	1R✓ 1L✓	" ✓	" " ✓	77-A-59✓	—	—	—	—
P	39	" ~~Cross~~ - FROG LEG - INSIDE✓	IR 1L 2✓	" ✓	" " ✓	77-A-60✓	—	—	—	—
P	40	" ~~Eulerum—Cylinder~~ " ✓ OUTSIDE✓	IR 1L 2✓	" ✓	" " ✓	77-B-60✓	—	—	—	—
P	✓41	" SUPPORT - FRONT✓	1✓	772-A-17✓	—	—	—	77-86✓	—	—
	42	" "	—							
	43	" " —Trailer	—							
P	44	" Link - FRONT CROSS EQUALIZER✓	1✓	776-F-7✓	—	77-A-61✓	—	—	—	—
	45	" Safety Strap	—							
	46	" " "	—							
	47	Spring Fulcrum	—							
P	48	" Gib	14✓	772-U-4✓	—	—	—	77-342✓	—	—
P	49	" "	2✓	772-A-18✓	—	—	—	77-85✓	—	—
	50	" "	—							
	51	" Guide	—							
P	52	" Hanger	2✓	776-F-7✓	—	77-A-13✓	—	—	—	—
P	53	" "	12✓	" ✓	—	77-A-192✓	—	—	—	—
P	54	" "	2✓	" ✓	—	77-A-62✓	—	—	—	—
	55	" "	—							
	56	" "	—							
	57	" "	—							
	58	" "	—							
	59	" " Block	—							
	60									
	61									

(Group 77 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 77—Spring Rigging (Cont.)								
P	1	Spring Hanger Link	12	776-F-7	MATL. ORD. IN P.D.	77-C-12	—	—	—	—
P	2	" " "	8	"	" "	77-D-12	—	—	—	—
	3	" " "	—							
	4	" " "	—							
	5	" Roller	—							
P	6	" Seat	4	~~776-F-7~~ 772-F-20	—	—	77-91	—	—	—
	7	" "	—							
	8	" "	—							
P	9	" HANGER PIN	1	776-F-7	—	77-B-27	—	—	—	—
P	10	" " "	10	"	—	77-B-28	—	—	—	—
P	11	" " "	8	"	—	77-E-28	—	—	—	—
P	12	" " "	2	"	—	77-A-26	—	—	—	—
P	13	" " "	2	"	—	77-C-28	—	—	—	—
P	14	" " "	2	"	—	77-E-29	—	—	—	—
P	15	" " "	2	"	—	77-F-28	—	—	—	—
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	39	**GR. 78—Stm. Gauge, Saf. Val. & Tur.**								
P	40	Steam Gauge	1	6 3/4" ASHCROFT	ORD. IN P.D.	—	—	—	—	—
P	41	" Turret	1	783-C-3	—	—	—	—	78-108-A	—
P	42	" " Valve	1	~~782~~ 783-B-5	—	—	—	—	78-113-A	—
P	43	" " " Gland - BOTTOM	1	" "	STICK BRASS	—	—	—	—	—
P	44	" " " Neck	1	" "	—	—	—	—	78-112	—
P	45	" " " Nut	1	" "	—	—	—	—	78-56	—
P	46	" " " Handle	1	263-A-1	—	—	—	—	~~26-65~~	~~EM-404~~
P	47	" " Joint Ring	1	782-B-8	—	—	—	—	78-114	—
P	48	" " VALVE GLAND	1	~~782~~ 783-B-5	STICK BRASS	—	—	—	—	—
P	49	" " VALVE STEM	1	" "	STEEL	—	—	—	—	—
P	50	" " PIPE ELBOW	1	782-P-90	—	—	—	—	—	—
P	51	" " DRILLING	1	782-A-16	—	—	—	—	—	—
	52									
	53									
P	54	LOW WATER ALARM	1	NATHAN	ORD. IN P.D. FURNISH LINER	—	—	—	—	—
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(Group 78 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 78—Stm. Gauge, Saf. Val. & Tur. (Ct.)								
	1	Steam Turret Casing	—							
	2	" " " Hinges	—							
	3	" " " Hasp	—							
	4									
	5									
	6									
8	✓7	Safety Valve	1 MUFFLED VOPEN	3"✓ COALE✓	ORD. IN P.D.✓	—	—	—	—	—
8	✓8	" " Extension	3✓	782-D-54✓	—	—	—	—	78-201✓	—
	9	" " Turret	—							
	10	" " " Bushing	—							
	11	" " " Casing								
	12	" " " " Supports								
	13	" " " " "								
	14									
	15									
	16	**GROUP 79—STEAM PIPES**								
	17	Steam Pipes	—							
8	✓18	Steam Pipe—Right	1✓	793-A-66✓	—	—	79-542-D✓	—	—	—
8	✓19	" " —Left	1✓	" ✓	—	—	79-543-D✓	—	—	—
	20	" "	—							
	21	" "	—							
	22	" "	—							
	23	" "	—							
8	✓24	" " Joint Ring (BET. CYL. & ST. PIPE)	2✓	792-B-4✓	—	—	79-113✓	—	—	—
8	✓25	" " " " (" HEADER & " ")	2	792-B-6	—	—	79-113	—	—	—
	26	" " " "	—							
	27	" " " "	—							
	28	" " Tee Head	—							
8	✓29	" " Casing R.H.✓	2✓	793-B-6✓	—	—	79-540✓	—	—	—
8	✓30	" " " L.H.✓	2✓	" ✓	—	—	79-541✓	—	—	—
8	✓31	" " " ~~Clamp~~ GLAND✓	4✓	" ✓	—	—	79-568✓	—	—	—
	32	" " Supports	—							
	33	" " "	—							
	34	" " " Strap	—							
	35	" " " " U-Bolt	—							
	36	" " Slip Joint Casing	—							
	37	" " " " Sleeve	—							
	38	" " " " Packing Rings	—							
8	✓39	" " CASING✓	2 SET✓	792-A-7✓	—	✓	—	—	—	—
8	✓40	" " " CLAMPS✓	8✓	792-A-10✓	—	340-S-01✓	—	—	—	—
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	45	**GROUP 80—STOKER**	—							
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(Group 80 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81 - SUPERHEATER ~~GROUP 80 — STOKER (Cont.)~~	—							
D	1	SUPERHEATER ARRGT.	1	817-F-9	—	—	—	—	—	—
D	2	" HEADER	1	813-A-8	CASTING ORD. IN P.D.	—	—	—	—	—
D	3	" " SUPPORT	2	817-F-9	PLATE - MATL. ORD. IN P.D.	81-C-8	—	—	—	—
D	4	" UNIT - SHAPE #1	9	813-V-18	MATL. ORD. IN P.D.	—	—	—	—	—
D	5	" " " #2	9	"	" " "	—	—	—	—	—
D	6	" " " #3	9	"	" " "	—	—	—	—	—
D	7	" " " #4	9	"	" " "	—	—	—	—	—
D	8	" " TAGS	1 SET	STENCIL TO SUIT	—	—	—	—	—	—
D	9	" RETURN BENDS	1 SET	812-A-71	MATL. ORD. IN P.D.	—	—	—	—	—
	10	" PIPE CLAMP	—							
D	11	" " BANDS	36	812-A-85	ORD. IN P.D.	—	—	—	—	—
D	12	" " SUPPORT	72	812-A-84	ORD. IN P.D.	—	—	—	—	—
D	13	" DAMPER	1	812-B-88	PLATE - MATL. ORD. IN P.D.	—	—	—	—	—
D	14	" " CYLINDER	1	42-11436-A	ORD. COMPLETE IN P.D.	—	—	—	—	—
D	15	" " " ARM	1	812-B-30	—	—	—	—	—	EM-297
	16	" " SHAFT ARM	—							
D	17	" " SHAFT.	2	812-C-50	—	812-C-50	—	—	—	—
D	18	" " " LINKS	1	812-A-46	—	812-A-46	—	—	—	—
D	19	" " " ARM - R.S.	1	812-E-94	—	812-E-94	—	—	—	—
D	20	" " " BEARING - L.S.	1	812-B-65	—	—	81-57-A	—	—	—
D	21	" " " " - R.S.	1	812-C-80	—	—	81-70-B	—	—	—
D	22	" " COUNTERWEIGHT	1	812-C-18	—	—	81-5	—	—	—
D	23	" UNIT BOLT	36	812-D-37	—	812-D-37	—	—	—	—
D	24	" " " WASHER	36	812-A-42	—	812-A-42	—	—	—	—
D	25	" " CLAMP	36	812-A-44	—	812-A-44	—	—	—	—
D	26	" " " BOLT NUT	36	812-A-82	STEEL	—	—	—	—	—
D	27	" " PIPE END.	72	812-A-105	—	—	—	—	—	—
D	28	" DAMPER SHAFT ARM - L.S.	1	812-A-30	—	—	—	—	—	—
D	29	" UNIT CLAMP WASHER	72	812-A-106	ORD. IN P.D.	—	—	—	—	EM-297
D	30	" " PROTECTION PLATE	1	817-F-9	PLATE - MATL. ORD. IN P.D.	81-A-27	—	—	—	—
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 83—TANK, ENGINE								
	1	Tank								
	2	" Material Bill								
	3	" Angle Iron								
	4	" Lifter								
	5	" Block								
	6	" "								
	7	" Wedge								
	8	" "								
	9	Tank Bearer								
	10	" "								
	11	Tank Funnel								
	12	" " Screen								
	13	" " Lid								
	14	" " Hinge								
	15	" " Handle								
	16	Tank Hand Hole								
	17	" " " Dog								
	18									
	19									
	20	Tank Equalizing Pipe								
	21	" " " Flange								
	22									
	23									
	24									
	25	Coa Bunk								
	26	" " Angle								
	27	" Gate								
	28	" " Latch								
	29	" " Handle								
	30	" Rack								
	31									
	32									
	33									
	34	**GROUP 91—Throttle & Dry Pipe**								
	35	Throttle Valve Arrangement	1 SET	CHAMBERS	ORD. IN P.D.					
	36	Throttle Valve & CASE	1 SET	"	ORD. IN P.D.					
	37	" " Stem								
	38	" " " Casing								
	39	" " " Lever								
	40	" " " " Rod								
	41	" " " " " Jaw								
	42	" " " " Fulcrum								
	43	" " " " Pins								
	44	" ~~Crank~~ CASE SUPPORT	1R 1L	912-A-297		912-A-297				
	45	" Pipe								
	46	" " Ring								
	47	" " Yoke								
	48	Throttle Stuffing Box	1	CHAMBERS	ORD. IN P.D.					
	49	" " " Gland								
	50	" " " "								
	51	" " " Ring								
	52	" Shaft								
	53	" " Arm								
	54	" " "								
	55	" Rod	1	912-D-184	BRASS TUBE ORD. IN P.D.					
	56	" " Crosshead								
	57	" " Jaw	1	912-D-184		91-A-8				
	58	" " Pin								
	59	" " Support								
	60									
	61									

(Group 91 Continued)

Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
	GROUP 91—Throt. & Dry Pipes (Cont.)								
1									
2									
3									
4									
5									
6									
7									
8									
9	Throttle Lever	1 SET	CHAMBERS ✓	ORD. IN P.D. ✓	—	—	—	—	—
10	" " Handle	—							
11	" " Latch	—							
12	" " " Spring	—							
13	" " " Guide	—							
14	" " " Rod	—							
15	" " Quadrant	—							
16	" " Support	—							
17	" " Fulcrum	—							
18	" " Stud	—							
19	" " Link	—							
20									
21									
22									
23	Dry Pipe	1 ✓	912-K-34 ✓	MATL. ORD ✓ IN P.D. ✓ ✓	—	—	—	—	—
24	" " Elbow	—							
25	" " Front End	1 ✓	912-A-33 PATT. ✓ 912-K-34 ✓	—	—	—	91-361 ✓	—	—
26	" "	—							
27	" " Sleeve	1 ✓	912-A-32 PATT. ✓ 912-K-34 ✓	—	—	—	91-360 ✓	—	—
28	" " Support	1	138-A 59	FURNISH BOLTS.	91 A Z 3	—	—	—	—
29	" " ~~Yoke~~ SUPPORT CLAMP	1	138 A 59	—	91 A Z 4	—	—	—	—
30	" " " Key								
31	" " Clamp BOLT ✓	2 ✓	912-B-29 ✓	FURNISH NUTS ✓ WASHERS & SPLIT KEYS	912-B-29 ✓	—	—	—	—
32	" " Joint Ring (BET THROTTLE & DRY PIPE) ✓	1 ✓	912-E-12 ✓	—	—	79-567 ✓	—	—	—
33	" " " " (BET. S.H. HEADER & " ") ✓	1 ✓	792-B-5 ✓	—	—	79-565 ✓	—	—	—
34									
35									
36									
37									
38									
39									
40									
41									
42									
43	FRAME FOR COPY OF TOOL LIST	1	SIZE OF FRAME INSIDE 7 3/4" x 9 3/4" OPENING	WOOD	—	—	—	—	—
44	**GROUP 92—TOOLS**	1 SET	923-A-25	ORD. IN P. O. ✓	—	—	—	—	—
45	Broom	—							
46	Coal Pick	—							
47	" Scoop	—							
48	Crosshead Block	2 SETS	922-A-125	HARD WOOD	—	—	—	—	—
49	~~Chisel "Cape"~~ CLIPS	8	~~922-A-200~~ " ✓	—	92-A-16	—	—	—	—
50	" —Flat	1	~~520-D-86~~						
51	Fire Rake	1	520-S-36	—	520-S-36	—	—	—	—
52	Flag—Green	—							
53	" —Red	—							
54	" —White	—							
55	Hard Hammer (Machinists)	—							
56	Lantern—White Hand	—							
57	" —Red "	—							
58	Main Pin Blocks	2 SETS	922-H-123	HARD WOOD	—	—	—	—	—
59	PINCH BAR	1	520-S-40	—	520-S-40	—	—	—	—
60	CHISEL LEVER BAR	1	520-S-39	—	520-S-39	—	—	—	—
61	ASH PAN SCRAPER	1	922-A-124	—	922-A-124	—	—	—	—

(Group 92 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS (Cont.)	—							
	1	Oil Can—Long Spout Oiler	—							
	2	" " —Engine Oil	—							
	3	" " —Valve "	—							
	4	" " —Signal "	—							
	5	" " —Kerosene Oil	—							
O	6	Packing Hook	1	520-S-38	——	520-S-38	——	——	——	——
O	7	" ~~Spoon~~ IRON	1	520-S-37	——	520-S-37	——	——	——	——
	8	Pinch Bar	—							
	9	Jackscrews	—							
	10	Tallow Pot	—							
	11	Torch	—							
	12	Torpedoes	—							
O	13	Valve Stem Block	1	922-A-203 ~~520-D-207~~	——	——	——	92-58	——	~~92-58~~
O	14	~~Waste~~ " " CAP	1	"	——	——	——	92-57	——	~~92-57~~
O	15	Wrench—~~Alligator~~ MIDDLE CONNECTION	1	922-A-182	——	——	——	92-85	——	——
	16	" —Monkey	—							
	17	Wrecking Frogs	—							
O	18	WRENCH - OIL OR GREASE CUP	1	922-A-202 ~~520-D-84~~	——	——	——	92-55	——	——
O	19	" - CYL. HEAD	1	922-C-202 ~~520-D-83~~	——	——	——	92-60	——	——
O	20	" - SPANNER	1	520-D-85	FURNISH HOOK	——	——	92-56	——	——
O	21	" - DOUBLE END CRANK PIN	1	922-A-201 ~~520-D-80~~	——	——	——	92-50	——	——
	22	**GROUP 94—Valves, Distribution**								
P	23	Piston Valve	2	943-A	ORD. IN P.D.	——	——	——	——	——
	24	" " Follower	—							
	25	" " T-Ring	—							
	26	" " Snap Ring	—							
	27	" " Body	—							
	28									
	29	Slide Valve	—							
	30	" " Plate	—							
	31	" " Packing Strip	—							
	32	" " " "	—							
	33	" " " Spring	—							
	34	" " " "	—							
	35									
	36									
P	37	Valve Rod	1R 1L	942-E-20	MATL. ORD. IN P.D.	94-A-5	——	——	——	——
P	38	" " ~~Key~~ BUSHING	2	"	STEEL	——	——	——	——	——
	39	" " Knuckle	—							
P	40	" " Pin	2	942-E-20	FURNISH NUT COTTER & DOWEL	——	——	——	——	——
P	41	" " Crosshead	2	942-A-67	MATL. ORD. IN P.D.	94-A-23	——	——	——	——
P	42	" " " KEY	2	"	——	94-A-4	——	——	——	——
	43									
P	44	Valve Stem	2	942-A-11	——	94-A-2	——	——	——	——
	45	" " Bushing	—							
	46	" " Guide	—							
	47	" " Clamp	—							
	48	Valve Yoke	—							
	49									
	50									
	51									
P	52	Valve Stem Packing	2 SETS	KING TYPE 942-A-9	ORD. IN P.D.	——	——	——	——	——
	53	" " " Gland	—							
	54	" " " Babbit Ring	—							
	55	" " " " "	—							
	56	" " " Split Ring	—							
	57	" " " Spring	—							
	58	" " " " Case	—							
	59	" " " Swab Cup	—							
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 95—WHEELS								
	1	Driving Wheel Center No. 1	2	953-M-16	—	—	—	95-270	—	—
	2	" " " No. 2	2	953-M-17	—	—	—	95-271-C	—	—
	3	" " " No. 3 MAIN	2	953-M-15	—	—	—	95-269	—	—
	4	" " " No. 4	2	953-M-16	—	—	—	95-270	—	—
	5	" " " No. 5	—							
	6	" " Hub Liner - F.I.&B.	6	952-H-39	—	—	95-272	—	—	—
	7	" " Tire—Flanged	8	952-J-76	MATL. ORD. IN P.D.	—	—	—	—	—
	8	" " "—Plain	—							
	9	" " " Ret. Ring	—							
	10	Wheel Pressed on Axle (Tons) - M.		160 TO 168 TONS	—	—	—	—	—	—
	11	DRIV. WHEEL HUB LINER - M	2	952-J-39	—	—	95-114	—	—	—
	12	WHEEL PRESSED ON AXLE - F.I.&B.		136 TO 144 TONS	—	—	—	—	—	—
	13	Trailing Wheel Center	—							
	14	" " Hub Liner	—							
	15	" " Tire	—							
	16	" " " Ret. Ring	—							
	17	Wheel Pressed on Axle (Tons)	—							
	18									
	19	Wheel—Engine Truck	—							
	20	" —Pressed on Axle (Tons)	—							
	21	**GROUP 96—WHISTLE**								
	22	Whistle	1	963-A-5	ORD. IN P.D.	—	—	—	—	—
	23	Whistle ~~Bell~~ VALVE STEM GUIDE NUT	1	963-A-4	STICK BRASS	—	—	—	—	—
	24	" Valve	1	"	" "	—	—	—	—	—
	25	" ~~Gland~~ " BODY	1	"	—	—	—	—	96-51-A	—
	26	" ~~Nut~~ " GLAND	1	"	STICK BRASS	—	—	—	—	—
	27	" ~~Sleeve~~ " STEM	1	"	STICK BRONZE	—	—	—	—	—
	28	" ~~Monkey Tail~~ " GUIDE	1	"	—	—	—	—	96-53	—
	29	" Lever	1	962-B-4	—	—	—	96-49	—	EM-416
	30	" VALVE STEM ~~Fulcrum~~ GUIDE GLAND	1	963-A-4	STICK BRASS	—	—	—	—	—
	31	" Arm	1	962-B-4	—	—	—	96-48	—	EM-419
	32	" Shaft	1	"	MATL. ORD. IN P.D.	—	—	—	—	—
	33	" " Bearing	1R 1L	"	—	96-A-2	—	—	—	—
	34	" " "	—							
	35	" Rod	1	962-B-4	—	96-A-1	—	—	—	—
	36	" ~~Rope Handle~~ " PINS	2	"	—	—	—	—	—	—
	37	" ~~Eye~~ VALVE	1	963-A-4	—	96-A-7	—	—	—	—
	38	" ~~Thimble~~ " CAP	1	"	—	—	—	—	96-52	—
	39	" ~~Sheave~~ " SEAT BUSHING	1	"	—	—	—	—	96-56	—
	40	" ~~Box~~ " LEVER	1	"	—	96-A-4	—	—	—	—
	41	" ~~Elbow~~ " ARM	1	"	—	96-A-5	—	—	—	—
	42	" ~~Extension~~ " HANDLE	1	263-B-1	—	—	—	—	—	EM-436
	43	" " JOINT RING	1	962-A-5	—	—	—	—	79-217	—
	44	" ROD (ON SAND BOX)	1	733-B-70	—	96-A-6	—	—	—	—
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GR. 97—Prelim. Designs & Proposi'n								
	1									
	2									
	3									
	4	**GR. 98—Clear. & Wheel Base Diag'm**	—							
	5									
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	8	**GROUP 99—MISCELLANEOUS**								
D	9	Billet List	1 SET	992-A-216	MATL. ORD. IN P.O.	—	—	—	—	—
	10	Booster								
	11	Booster King Pin Arrangement								
	12	" " " Ball Seat								
	13	" " "								
	14	" " " Washer								
	15	" " " Spring								
	16									
	17									
	18	Booster Throttle	—							
	19	" " Support	—							
	20	" " " Brake	—							
	21									
	22	Booster Pilot Valve Bracket	—							
	23	" Timing Reservoir Bracket	—							
	24									
	25									
	26	Booster Live Steam Elbow	—							
	27	" " " " Joint Ring	—							
	28	" " " " "	—							
	29	" " " "Y"	—							
	30	" " " Flanges	—							
	31									
	32									
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	35									
	36	Booster Live Steam Joint Rings	—							
	37									
	38									
	39									
	40									
	41									
	42									
	43	Booster Live Steam Choke (Prelim. Valve Line)								
	44	" " " " (Lubricator)								
	45	" " " " Swivel								
	46	" " " " " Nut								
	47	" " " " (Steam Gauge Line)								
	48	" " " " Swivel								
	49	" " " " " Nut								
	50	" " " " (At Steam Gauge)								
	51	Booster Exhaust Pipe Elbow								
	52	" " " Coupling								
	53	" " " " Flange								
	54	" " " " Joint Ring								
	55	" " " " Sleeve								
	56	" " " " "								
	57	" " " " " Flange								
	58									
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
	1	Booster Guide Bracket								
	2	" " "								
	3	" " Rod								
	4	" " " Clamp								
	5	" " "								
	6	" " " Clamp								
	7	" " Pin								
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	54	Speed Recorder Rigging								
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(Group 99 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
	1									
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 99—Miscellaneous (Cont.)								
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Material Specifications